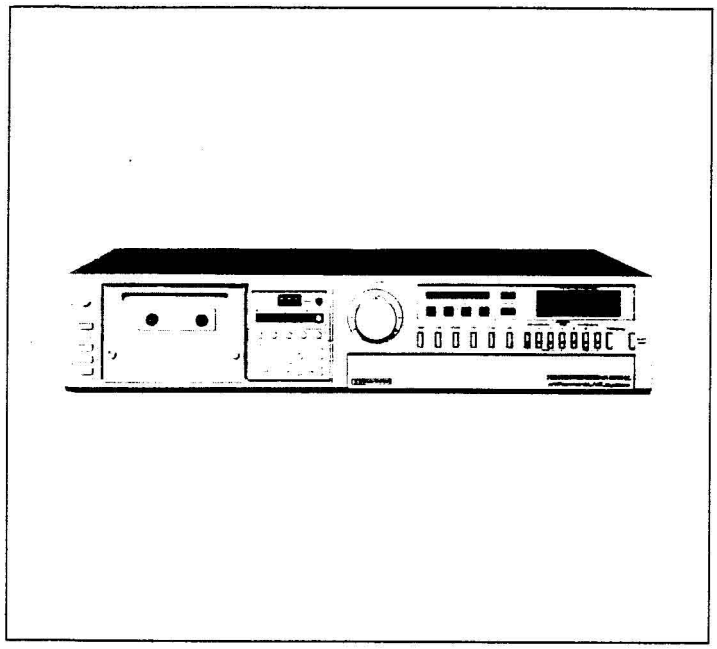


NORDMENDE

Zentralkundendienst

Service-Information
HiFi 8900 SC 981.161 H

Technische Daten

Stromversorgung:
220 V/50 Hz

Leistungsaufnahme:
260 W

Wellenbereiche:
UKW 87,5 – 108 MHz
MW 520 – 1610 kHz
LW 155 – 355 kHz

Empfindlichkeit:
UKW Mono: 1 µV
UKW Stereo: 20 µV

Übersprechdämpfung:
47 dB

Trennschärfe:
45 dB ± 300 kHz

Ausgangsleistung:
2 x 40 W sinus an 4 Ω

Klirrfaktor:
Bei 35 W: 0,08 %

Geräuschspannungsabstand:

TA: 60 dB
TB: 75 dB

Frequenzumfang:
TA: 20 Hz – 20 kHz ± 1,5 dB
TB: 20 Hz – 30 kHz ± 1 dB

Eingangsempfindlichkeit Impedanz:
TA: 3 mV/47 kΩ
TB: 150 mV/47 kΩ

Gleichlaufschwankung:
0,17 %

Frequenzumfang (Recorder):
20 Hz – 16 kHz

Abmessungen:
B: 500; H: 100; T: 340 mm

Technical data

Power supply:
220 V/50 Hz

Power consumption:
260 W

Wave bands:
FM 87,5 – 108 MHz
MW 520 – 1610 kHz
LW 155 – 355 kHz

Sensitivity:
FM mono: 1 µV
FM stereo: 20 µV

Stereo separation:
47 dB

Alternate channel selectivity:
45 dB ± 300 kHz

Output power:
2 x 40 W sinus at 4 Ω.

Total harmonic distortion:
at 35 W: 0,08 %

Signal to noise ratio at rated power output (weighted):
Phono: 60 dB
Tape play: 75 dB

Frequency response:
Phono: 20 Hz – 20 kHz ± 1,5 dB
Tape play: 20 Hz – 30 kHz ± 1 dB

Input sensitivity/impedance:
Phono: 3 mV/47 kΩ
Tape: 150 mV/47 kΩ

Wow and flutter:
0,17 %

Frequency response (tape):
20 Hz – 16 kHz

Dimensions:
W: 500; H: 100; D: 340 mm

Dati technici

Alimentazione:
220 V/50 Hz

Consumo:
260 W

Lunghezze d'onda recepite:
MF 87,5 – 108 MHz
OM 520 – 1610 kHz
OL 155 – 355 kHz

Sensibilità:
MF mono: 1 µV
MF stereo: 20 µV

Diafonia:
47 dB

Selettività:
45 dB ± 300 kHz

Potenza di uscita:
2 x 40 W sinus su 4 Ω

Distorsione armonica:
a 35 W: 0,08 %

Rapporto segnale/disturbo:

Giradischi: 60 dB
Registratore: 75 dB

Curva di risposta:
Giradischi: 20 Hz – 20 kHz ± 1,5 dB
Registratore: 20 Hz – 30 kHz ± 1 dB

Sensibilita/impedenza:
Giradischi: 3 mV/47 kΩ
Registratore: 150 mV/47 kΩ

Fluttuazione:
0,17 %

Banda passante (recorder):
20 Hz – 16 kHz

Dimensioni:
L: 500; A: 100; P: 340 mm

DOLBY SYSTEM ® under LICENCE from DOLBY laboratories

Diese Angaben und Hinweise sind ausschließlich für den Service des Fachhändlers bestimmt · Änderungen vorbehalten
These instructions are for service dealers only · Subject to modification
Questi dati ed istruzioni sono destinati esclusivamente al servizio assistenza clienti· Con riserva di modifiche

Abgleichanweisung

Ruhestromeinstellung
Lautstärke auf min., keine Last an die Lautsprecherbuchsen anschließen.

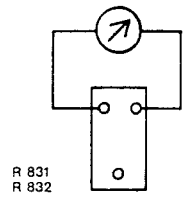
1. Linker Kanal: Multimeter über R 831 anschließen. Das Poti R 819 so einstellen, daß die Spannung über R 831 8 mV ± 2 mV beträgt.
2. Rechter Kanal: Multimeter über R 832 anschließen. Das Poti R 820 so einstellen, daß die Spannung über R 832 8 mV ± 2 mV beträgt.

Alignment Instructions

Adjustment of the quiescent current

Set the volume control for minimum and do not load the loudspeaker sockets.

1. Left channel: Connect a multimeter across R 831. Adjust R 819 so that the voltage across R 831 is 8 mV ± 2 mV.
2. Right channel: Connect a multimeter across R 832. Adjust R 820 so that the voltage across R 832 is 8 mV ± 2 mV.



Norme di taratura

Regolazione della corrente permanente

Regolare il volume su minimo, senza carico (resistenze, box altoparlanti) e collegare le case acustiche.

1. Canale sinistro: Collegare un multimetro attraverso R 831. Regolare il potenziometro R 819 in modo che la tensione misurata attraverso R 831 sia di 8 mV ± 2 mV.
2. Canale destro: Collegare un multimetro attraverso R 832. Regolare il potenziometro R 820 in modo che la tensione misurata attraverso R 831 sia di 8 mV ± 2 mV.

Abstimmspannung, Manual (über Antennenbuchse einspeisen)
Tuning voltage, manual (Antenna socket)
Tensione di sintonizzazione (Presa antenna)

Wellenbereich Wave range Gamma	**Frequenz** Frequency Frequenza	**Display**	**Multimeteranschluß** Meter connection Collegamento del multimetro	**Abgleichpunkt** Alignment point Punto d'allineamento	**Spannung** Voltage Voltaggio
FM	**87,5 MHz**	**87,5 MHz**	**P 107-2**	**L 103 Oszill.-Spule** Osc. coil Bobina oscill.	**1,2 V**
	108 MHz	**108 MHz**		**TC 103 Oszill.-Trimmer** Osc. trimmer Trimmer oscill.	**7,5 V**
Im Bedarfsfall: L 104, TC 105, Einstellung der Eckfrequenzen					
MW	**522 kHz**	**522 kHz**	**P 107-2**	**L 109 Oszill.-Spule** Osc. coil Bobina oscill.	**0,95 V**
	1611 kHz	**1611 kHz**		**TC 106 Oszill.-Trimmer** Osc. trimmer Trimmer oscill.	**8 V**
LW	**155 kHz**	**155 kHz**	**P 107-1**	**L 110 Oszill.-Spule** Osc. coil Bobina oscill.	**1,2 V**
	353 kHz	**353 kHz**		**TC 107 Oszillator-Trimmer** Osc. trimmer Trimmer oscill.	**8 V**

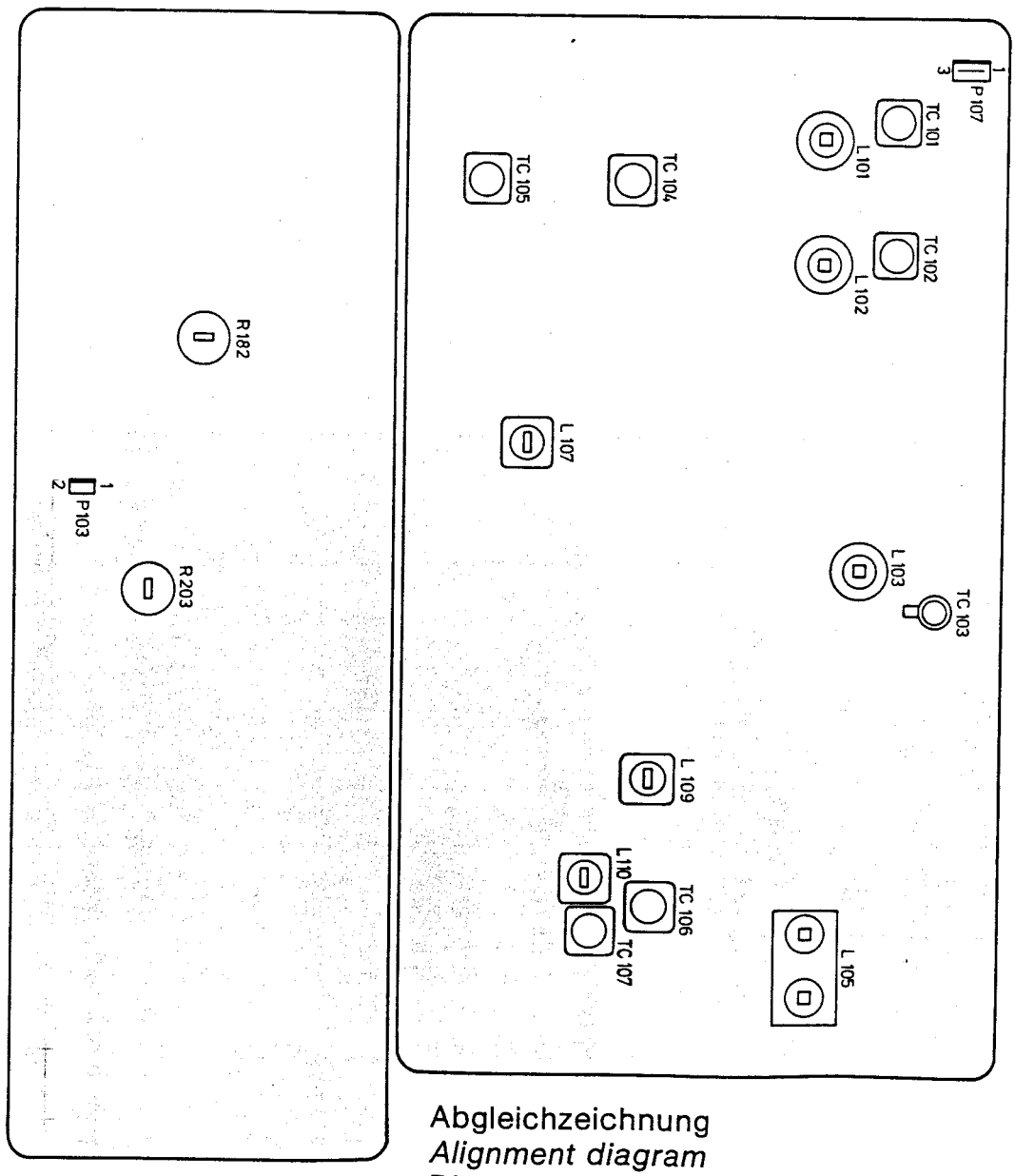
FM-Abgleich / FM-alignment / Allineamento FM

Bereich Range Gamma **FM**	**Meßsender**/Signal source/Strumento di misura **(22,5 kHz Hub mod.) Ri ca. 60 Ohm** **Anschluß** Connect to Collegamento	**Frequenz** Frequency Frequenza	**Display**	**Abgleichpunkt** Alignment point Punto d'allineamento	**Abgleich** Adjust Regolare
ZF/IF/FI	**Über Antennenbuchse einspeisen** engl. engl. Presa antenna	**98 MHz ≧ 1 mV**	**98 MHz**	**L 105 prim. + sek.**	**0 V ± 5 mV**
HF/RF/FA		**90 MHz**	**90 MHz**	**L 101, L 102 Vorkreisspule** Ant.-coil Bobina circuito pre	**max.**
		106 MHz	**106 MHz**	**TC 101, TC 102 Vorkreistrimmer** Ant.-trimmer Trimmer circuito pre	**max.**

AM-Abgleich / AM-alignment / Taratura AM
Feldstärke der Eingangsspannung so klein halten, daß keine Schwundregelung einsetzt.
RF-level below limiting function. / Livello RF inferiore alla soglia della limitazione.

Bereich Range Gamma		**Meßsender (30 % mod. 400 Hz)** Signal source / Generatore Anschluß Connect to Collegamento	Frequenz Frequency Frequenca	**Display**	**Abgleichpunkt** Alignment point Punto d'allineamento	**Abgleich** Adjust Regolare
ZF IF	**MW**	**Meßsender über Koppelschleife auf Ferritstab einstrahlen** Signal gen. coupled by single turn coil to ferrite antenna Generatore accoppiato con una spira alla antenna in ferrite	**1404 kHz**	**1404 kHz**	**L 107**	**max.**
MW/AM/OM	**MW**		**630 kHz**	**630 kHz**	**MW L 106-1 Vorkreisspule** Ant.-coil Bobina circuito pre	**max.**
			1404 kHz	**1404 kHz**	**TC 104 Vorkreistrimmer** Ant.-trimmer Trimmer circuito pre	**max.**
LW/OL	**LW**		**164 kHz**	**164 kHz**	**L 106-3 Vorkreisspule** Ant.-coil Bobina circuito pre	**max.**
			353 kHz	**353 kHz**	**TC 105 Vorkreistrimmer** Ant.-trimmer Trimmer circuito pre	**max.**

Decoderabgleich / Decoder alignment / Taratura del decoder **Mutingtaste auf „Stereo“** / Muting button to "Stereo" / Tasto muting su "Stereo"					
Stereocoderfrequenz Stereocoder frequency Frequenza del codificatore stereo	**Eingangspegel** Input level Livello di entrata	**Zeigerstellung** Set pointer to Portare indice su	**Abgleichpunkt** Alignment points Punti di taratura	**Meßpunkt** Test points Punto di misura	**Abgleich** Adjust Regolare
100 MHz (mono)	**≧1 mV**	**100 MHz**	**R 203**	**P 103-1**	**19 kHz (± 50 Hz) mit Frequenzzähler Re ≧ 5 MΩ, ≧ 2 pF** 19 kHz (± 50 Hz) with frequency counter Re ≧ 5 MΩ, ≧ 2 pF Allineare 19 kHz (± 50 Hz) mediante un contatore di frequenza
100 MHz (stereo) Mod. 1 kHz Hub 40 kHz	**≧ 1 mV**	**100 MHz**	**R 182**	**Diodenbuchse Pin 1,4 und 2**	**max. Kanaltrennung** max. channel separation Separazione dei canali massima



Abgleichzeichnung
Alignment diagram
Diagramma disposizione degli allineamenti

Recorderabgleich

Tonkopfeinstellung

Nach dem Herausschrauben der beiden Rändelschrauben, die Plastikblende abnehmen.

Das Zierblech (siehe Abb. 1 [A] + [B]) unten fassen und vorsichtig nach vorne abnehmen.

Kombikopf mit Entmagnetisierungsdrossel entmagnetisieren. Fe-DIN-Bezugsband einlegen. Gerät auf Wiedergabe schalten. Mit dem Bandteil „Spalteinstellung" den Tonkopf durch die Einstellöffnung C in der Frontblende (siehe Abb. 1) auf maximale Ausgangsspannung stellen. Einstellschraube mit Sicherungslack sichern.

Recorder alignment

Sound head adjustment

After removing the two knurled screws, take off the plastic panel.

Grasp the metal plate (see fig. 1 [A] + [B]) un derneath and carefully remove it from the front.

Demagnetize the combination head with a degaussing coil. Insert a Fe DIN reference tape. Set the recorder to playback. Using the tape section "gap adjustment" adjust the sound head through the adjustment opening C in the front panel (see fig. 1) for maximum output voltage. Secure the adjustment screw with lacquer.

Taratura registratore

Taratura della testa sonora

Dopo aver svittato le due viti, staccare lo schermo di plastica.

Afferrare la parte inferiore della lamiera decorativa (vedi fig. 1 [A] + [B]) e toglierla con cura verso il davanti.

Smagnetizzare la testa di combinazione mediante la bobina di demagnetizzazione. Inserire un nastro di riferimento Fe-DIN. Commutare l'apparecchio su riproduzione. Regolare la testa sonara sulla tensione d'uscita massima con la parte del nastro "aggiustaggio della testa sonora" attraverso l'apertura di messa a punto C nello schermo frontale (vedi fig. 1). Proteggere la vite di regolazione con vernice di sicurezza.

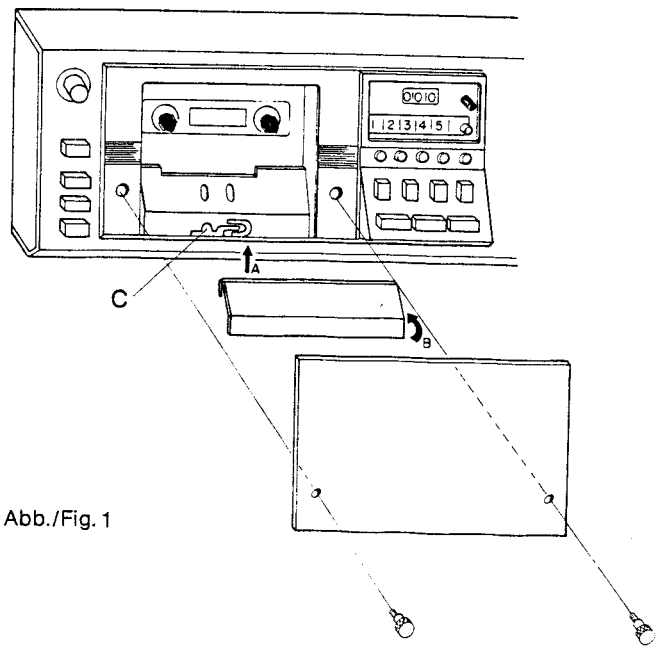
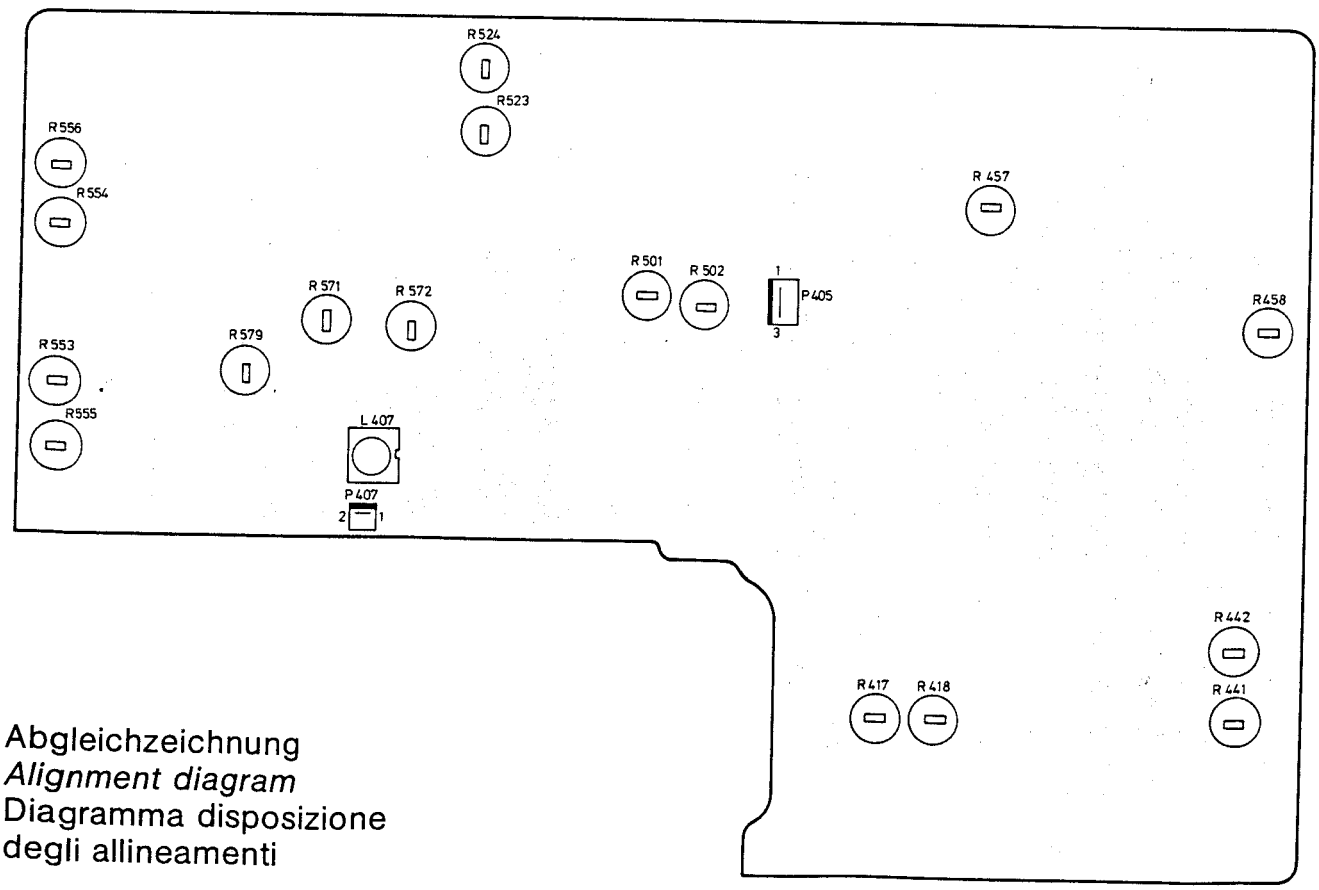


Abb./Fig. 1



Abgleichzeichnung
Alignment diagram
Diagramma disposizione degli allineamenti

1. Aufnahmeverstärkung

a) Recorder in Aufnahmestellung, Dolby-NR-Schalter auf „On", Aussteuerungsregler auf Maximum.

b) Eingangssignal 1 kHz; −9,5 dBs (0 dBs = 1 V) in die „tape"-Buchse (aux) einspeisen. Die Drehregler R 457 und R 458 so einstellen, daß die Pegel −2,5 dBs an den Testpunkten P 405-2 und P 405-3 betragen.

2. Aufnahmepegel

a) Recorder in Aufnahmestellung, Dolby-NR-Schalter auf „On", Aussteuerungsregler auf Maximum.

b) Eingangssignal 1 kHz; −9,5 dBs (0 dBs = 1 V) in die „tape"-Buchse (aux) einspeisen. Die Drehregler R 501 und R 502 so einstellen, daß die „+3"-Aussteuerungsanzeige leuchtet.

3. Wiedergabefrequenzgang

a) Bandwahlschalter auf „normal", Fe-DIN-Cassette Frequenzgang einlegen, Gerät auf Wiedergabe.

b) Mit den Drehreglern R 441 und R 442 den 10 kHz Ausgangspegel auf ± 0 dB des 1-kHz-Pegels einstellen.

4. Wiedergabeempfindlichkeit

a) Bandwahlschalter auf „normal", Fe-DIN-Cassette (Frequenzgang) einlegen, Gerät auf Wiedergabe.

b) Mit den Drehreglern R 417 und R 418 den Pegel auf −2,5 dBs an den Testpunkten P 405-2 und P 405-3 einstellen.

5. Löschfrequenz

a) Löschfrequenzschalter auf „1", Bandwahlschalter auf „metal", Gerät in Aufnahmestellung bringen.

b) L 407 auf 57 kHz an Testpunkt P 407-1 einstellen.

6 Aufnahme- Wiedergabefrequenzgang

a) Dolby-NR-Schalter auf „Off", Löschfrequenzschalter auf „1", Gerät in Aufnahmestellung bringen, Eingangspegel −20 VU.

b) Bandwahlschalter auf „SA/CrO2". Die Frequenzen 1 kHz und 10 kHz auf eine CrO2-Cassette aufnehmen und wiedergeben. Mit den Drehreglern R 571 und R 572 die 10-kHz-Ausgangspegel auf ± 0 dB der 1-kHz-Pegel einstellen.

c) Bandwahlschalter auf „normal". Die Frequenzen 1 kHz und 10 kHz auf eine Normalcassette aufnehmen und wiedergeben. Mit dem Drehregler R 579 den 10-kHz-Ausgangspegel auf ± 0 dB des 1-kHz-Pegels einstellen.

d) Bandwahlschalter in Stellung „metal". Die Frequenzen 1 kHz und 10 kHz auf eine Metalcassette aufnehmen und wiedergeben. Mit den Drehreglern R 555 und R 556 den 10-kHz-Ausgangspegel auf ± 0 dB der 1-kHz-Pegel einstellen.

7. Aufnahme- und Wiedergabeempfindlichkeit

a) Gerät in Aufnahmestellung, Löschfrequenzschalter auf „1". Eingangssignal 1 kHz; + 3 VU.

b) Bandwahlschalter auf „SA/CrO2". Ein 1-kHz-Signal auf eine Chromcassette aufnehmen und wiedergeben. Die Drehregler R 523 und R 524 auf −2,5 dBs an den Testpunkten P 405-2 und P 405-3 einstellen.

c) Bandwahlschalter auf „metal". Ein 1-kHz-Signal auf eine Metalcassette aufnehmen und wiedergeben. Die Drehregler R 553 und R 554 auf −2,5 dBs an den Testpunkten P 405-2 und P 405-3 einstellen.

d) Nach dem Abgleich Punkt 6 überprüfen.

1. Recording amplification

a) Set the unit to record, Dolby NR switch to "On", recording level control to maximum.

b) Apply an input signal of 1 kHz; −9,5 dBs (0 dBs = 1 V) to the "tape" socket (aux). Adjust R 457 and R 458 so that the level on testpoint P 405-2 and P 405-3 is −2,5 dBs.

2. Recording level

a) Set the unit to record, Dolby NR switch to "On", recording level control to maximum.

b) Apply an input signal of 1 kHz; −9,5 dBs (0 dBs = 1 V) to the "tape" socket (aux). Adjust R 501 and R 502 so that the "+3" level indication illuminates.

3. Playback frequency response

a) Tape selection switch to "normal" and insert a Fe frequency response DIN cassette. Set the recorder to playback.

b) Adjust R 441 and R 442 so that the 10 kHz output level is ± 0 dB of the 1 kHz level.

4. Playback sensitivity

a) Tape selection switch to "normal" and insert a Fe DIN cassette (frequency response). Set the recorder to playback.

b) Adjust R 417 and R 418 for a level of −2,5 dBs on testpoints P 405-2 and P 405-3.

5. Erase frequency

a) Set the erase frequency switch to "1" and the tape selection switch to "metal". Set the unit to record.

b) Adjust L 407 for 57 kHz on testpoint P 407-1.

6. Record and playback frequency response

a) Set the Dolby NR switch to "Off" and the erase frequency switch to "1". Set the unit to record with an input level of −20 VU.

b) Set the tape selection switch to "SA/CrO2". Record and playback the frequencies 1 kHz and 10 kHz with a CrO2 cassette. Adjust R 571 and R 572 so that the 10 kHz output level is ± 0 dB of the 1 kHz level.

c) Set the tape selection switch to "normal". Record and playback the frequencies 1 kHz and 10 kHz with a normal cassette. With R 579 adjust the 10 kHz output level to ± 0 dB of the 1 kHz level.

d) Set the tape selection switch to "metal". Record and playback the frequencies 1 kHz and 10 kHz with a metal cassette. Adjust R 555 and R 556 so that the 10 kHz output level is ± 0 dB of the 1 kHz level.

7. Record and playback sensitivity

a) Set the unit to record, erase frequency to "1", input signal 1 kHz; +3 VU.

b) Set the tape selection switch to "SA/CrO2". Record and playback a 1 kHz signal with a chrome cassette. Adjust R 523 and R 524 for −2,5 dBs on testpoints P 405-2 and P 405-3.

c) Set the tape selection switch to "metal". Record and playback a 1 kHz signal with a metal cassette. Adjust R 553 and R 554 for −2,5 dBs on testpoints P 405-2 and P 405-3.

d) After completing the alignment, re-check paragraph 6.

---

1. Amplificazione della registrazione

a) Commutare il registratore su registrazione, portare l'interruttore Dolby-NR in posizione "On" ed il potenziometro del livello di modulazione in posizione estrema massima.

b) Segnale d'entrata 1 kHz; introdurre −9,5 dBs (0 dBs = 1 V) nella presa "tape" (aux). Regolare i potenziometri rotativi R 457 ed R 458 in modo tale che i livelli siano di −2,5 dBs ai punti di misura P 405-2 e P 405-3.

2. Livello di registrazione

a) Commutare il registratore su registrazione, portare l'interruttore Dolby-NR in posizione "On" ed il regolatore di modulazione in posizione estrema massima.

b) Segnale d'entrata 1 kHz; introdurre −9,5 dBs (0 dBs = 1 V) nella presa "tape" (aux). Regolare i potenziometri rotativi in modo tale che l'indicatore di modulazione ("+ 3") venga illuminato.

3. Risposta di frequenza riproduzione

a) Portare il commutatore selettore di nastro in posizione "normal", inserire una cassetta Fe-DIN (risposta di frequenza) e commutare l'apparecchio su riproduzione.

b) Regolare il livello d'uscita 10 kHz su ± 0 dB del livello 1 kHz mediante i potenziometri rotativi R 441 ed R 442.

4. Sensibilità di riproduzione

a) Portare il commutatore selettore di nastro in posizione "normal", inserire una cassetta Fe-DIN (risposta di frequenza), commutare l'apparecchio su riproduzione.

b) Regolare il livello su −2,5 dBs ai punti di misura P 405-2 e P 405-3 tramite i potenziometri rotativi R 417 ed R 418.

5. Frequenza di cancellazione

a) Portare il commutatore di frequenza di cancellazione in posizione "1", lo selettore di nastro in posizione "metal" e l'apparecchio su riproduzione.

b) Regolare L 407 su 57 kHz al punto di misura P 407-1.

6. Risposta di frequenza registrazione-riproduzione

a) Portare l'interruttore Dolby-NR in posizione "Off", il commutatore di frequenza di cancellazione su "1", l'apparecchio in posizione registrazione. Livello d'entrata −20 VU.

b) Portare il commutatore selettore di nastro in posizione "SA/CrO2", Registrare le frequenze 1 kHz e 10 kHz su una cassetta CrO2 ed effettuarne una riproduzione. Regolare i livelli d'uscita 10 kHz su ± 0 dB dei livelli 1 kHz mediante i potenziometri rotativi R 571 ed R 572.

c) Portare il commutatore selettore di nastro in posizione "normal". Registrare le frequenze 1 kHz e 10 kHz su una cassetta normale ed effettuarne una riproduzione. Regolare il livello d'uscita 10 kHz su ± 0 dB del livello 1 kHz mediante il potenziometro rotativo R 579.

d) Portare il commutatore selettore di nastro in posizione "metal". Registrare le frequenze 1 kHz e 10 kHz su una cassetta "metal" ed effettuarne una riproduzione. Regolare il livello d'uscita 10 kHz su ± 0 dB dei livelli 1 kHz mediante i potenziometri rotativi R 555 ed R 556.

7. Sensibilità di registrazione/riproduzione

a) Portare l'apparecchio in posizione di registrazione, il commutatore di frequenza di cancellazione su "1". Segnale d'entrata 1 kHz; + 3 VU.

b) Portare il commutatore selettore di nastro in posizione "SA/CrO2". Registrare un segnale 1 kHz su una cassetta a nastro di croma ed effettuarne una registrazione. Regolare i potenziometri R 523 ed R 524 su −2,5 dBs ai punti di misura P 405-2 e P 405-3.

c) Portare il commutatore selettore di nastro su "metal". Registrare un segnale 1 kHz su una cassetta "metal" ed effettuarne una riproduzione. Regolare i potenziometri R 553 ed R 554 su −2,5 dBs ai punti di misura P 405-2 e P 405-3.

d) La messa a punto essendo effettuata, bisogna controllare punto 6.

Bandgeschwindigkeit

Zum Einstellen der Bandgeschwindigkeit die Frontblende abnehmen. Die vier Schrauben (1) aus der Recorderbedienteilplatine herausschrauben und die Platine abbiegen (Abb. 2). Testcassette 3150 Hz einlegen und die Bandgeschwindigkeit im Motor (Abb. 2 [A]) auf ± 0 % am Driftmeter einstellen. Bei Verwendung eines Frequenzzählers die Frequenz auf 3150 Hz ± 10 Hz einstellen.

Tape speed

To adjust the tape speed, remove the front panel. Take out the four screws (1) from the recorder unit p. c. . and bend the board outwards (fig. 2). Insert a 3150 Hz test cassette and adjust the tape speed control on the motor (fig. 2 [A]) to + 0 % on the drift meter. If a frequency counter is employed, adjust the frequency to 3150 Hz ± 10 Hz.

Velocità del nastro

Per regolare la velocità del nastro, staccare lo schermo frontale. Svittare le quattro viti (1) dalla piastra sezione dei comandi del registratore e piegare in giù la piastra (fig. 2). Inserire una cassetta di prova 3150 Hz e regolare la velocità del nastro nel motore (vedi fig. 2 (A) su ± 0 % sullo strumento di misura dello scorrimento. Utilizzando un contatore di frequenza, bisogna regolare la frequenza su 3150 Hz ± 10 Hz.

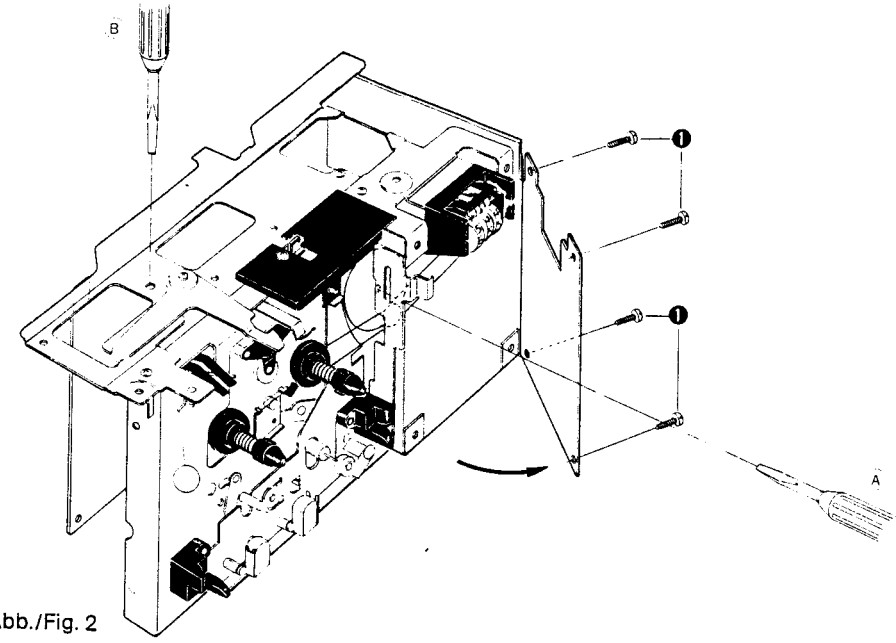


Abb./Fig. 2

Bandzug

a) Wiedergabe

Die Einstellung des Bandzugs bei Wiedergabe wird mit dem Torque-Regler (Abb. 2 [B]) nach Einlegen der Torque-Cassette auf 40 – 70 gcm eingestellt.

b) Vor- und Rücklauf

Zur Einstellung des Bandzugs für den Vor- und Rücklauf muß der Cassettenhalter aus den beiden oberen Führungen am Chassis, sowie aus der Snap-in-Verriegelung des Dämpfungshebels beim Öffnen, ausgehakt werden.

Danach die beiden Schrauben (1) herausschrauben und die Platte (2) abnehmen. Der Bandzug kann durch justieren der Feder (5) auf dem Kupplungsteller (3) nach rechts verstärkt und nach links abgeschwächt werden.

Vorlauf: mehr als 80 gcm
Rücklauf: mehr als 80 gcm

Nach dem Justieren wird zum Zusammenbau die Achse (6) in die Führung (7) und die Achse des Gummirädchens (8) in die Öffnung (9) gesteckt.

Tape tension

a) Playback

Adjustment of the tape tension at playback is carried out with the torque control (fig. 2 [B]). Using a torque cassette, this control is adjusted for 40 – 70 gcm.

b) Fast forward and rewind

To adjust the tape tension for fast forward and rewind, the cassette holder in the open position must be removed from the two upper guides on the chassis and from the snap-in retainer of the damping lever.

Unscrew the two screws (1) and take off plate (2). The tape tension can be increased by adjusting the spring (5) on the coupling plate (3) to the right and can be decreased by adjusting to the left.

Fast forward: more than 80 gcm
Rewind: more than 80 gcm.

To reassemble after adjustment, the axle (6) is inserted into guide (7) and the axle of the rubber wheel (8) into the opening (9).

Trazione del nastro

a) Riproduzione

Dopo aver introdotto la cassetta Torque, la trazione del nastro in fase di lettura viene regolata su 40 – 70 gcm mediante il regolatore Torque (fig. 2 [B]).

b) Avanzamento/riavvolgimento rapidi

Per la regolazione della trazione del nastro per l'avanzamento/riavvolgimento rapidi, il portacassetta deve venir sganciato dalle due guide superiori del telaio come pure dal bloccaggio "Snap-In" della leva d'attenuazione.

Poi svittare le due viti (1) e staccare la piastra (2). Aumentare la trazione del nastro aggiustando la molla (5) sul bacino d'innesto (3) verso la destra, diminuirla aggiustando la molla verso la sinistra.

Avanzamento: Più di 80 gcm
Riavvolgimento: Più di 80 gcm.

Per il montaggio dopo la messa a punto, inserire l'asse (6) nella guida (7) e l'asse della rondella di gomma (8) nell'apertura (9).

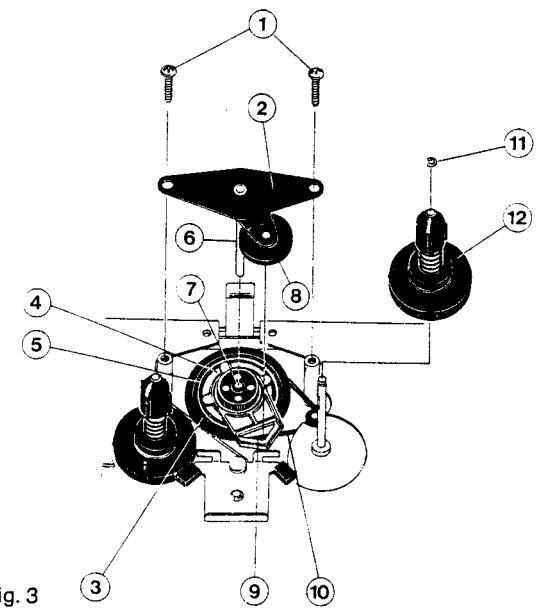
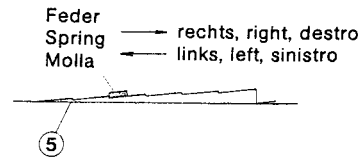
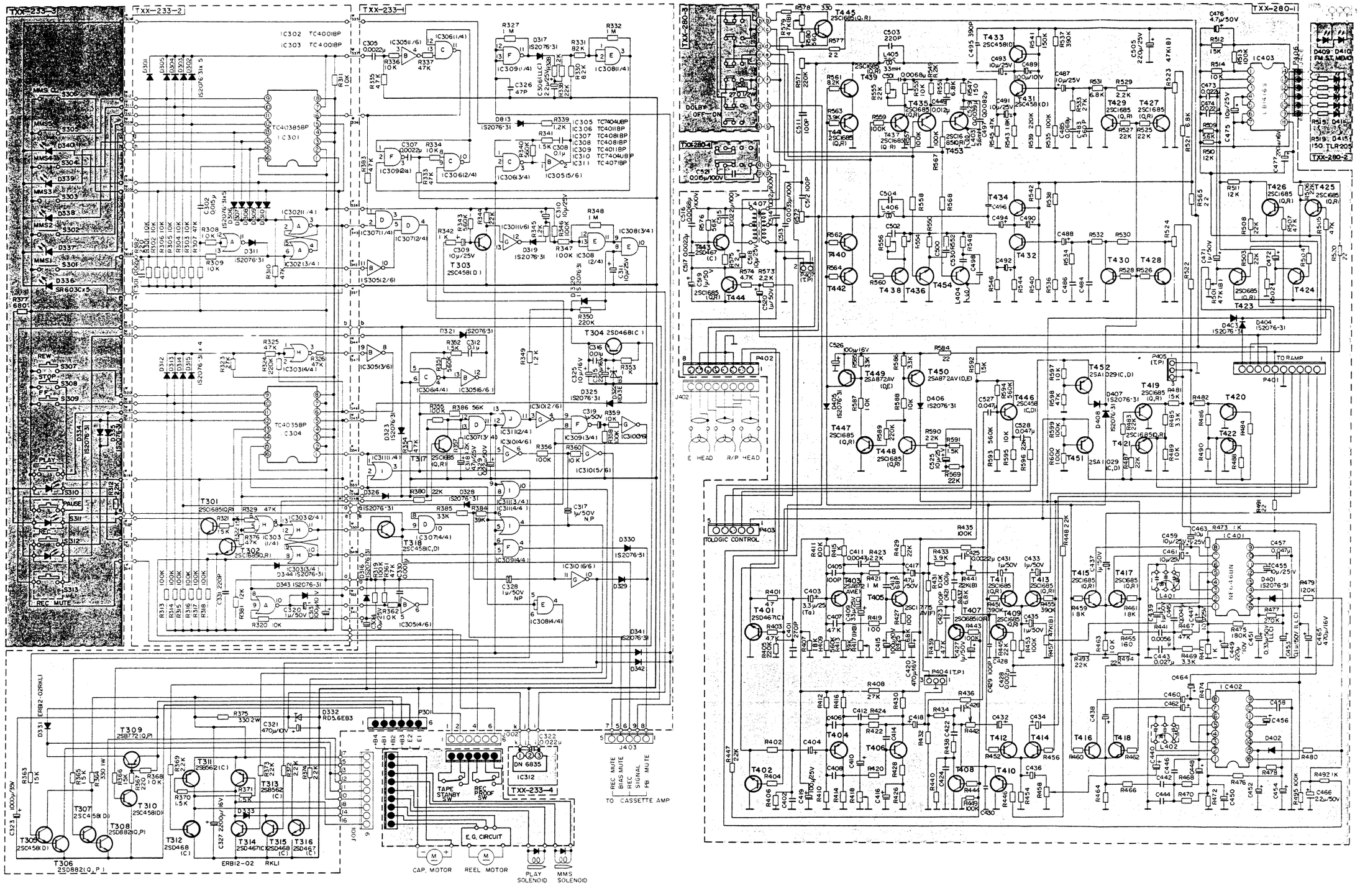


Abb./Fig. 3



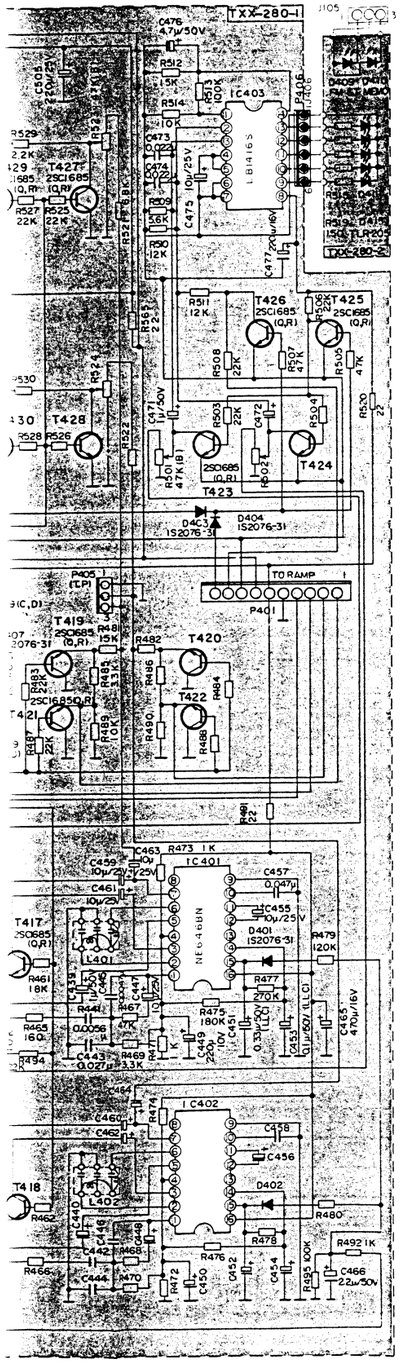


Recorderteil – *Recorder section* – Parte registratore

NORDMENDE

HiFi 8900 SC 981.161 H

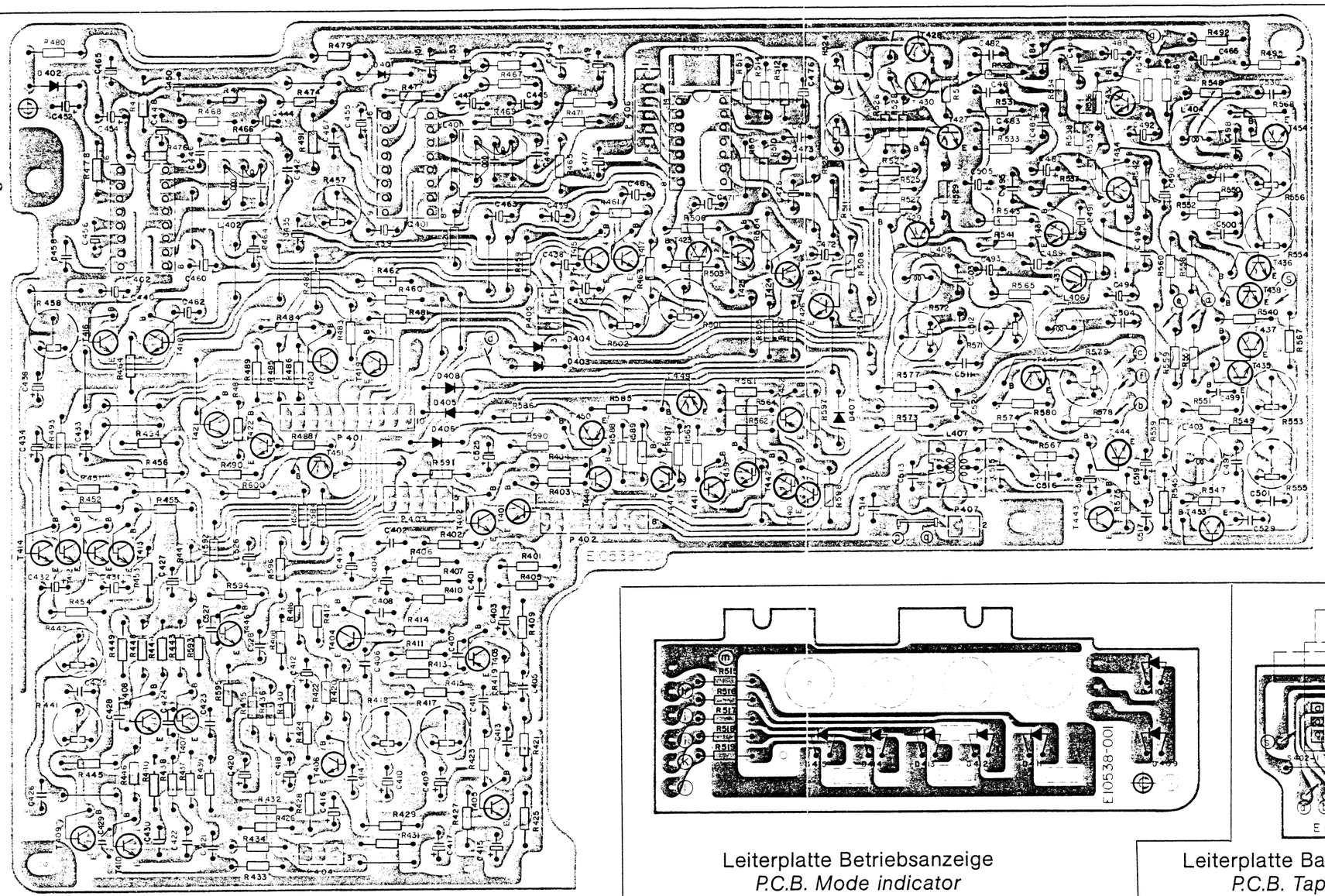
KD 187.415



NORDMENDE

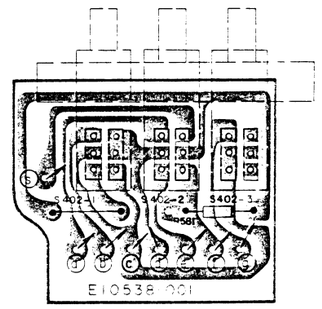
HiFi 8900 SC 981.161 H

KD 187.415



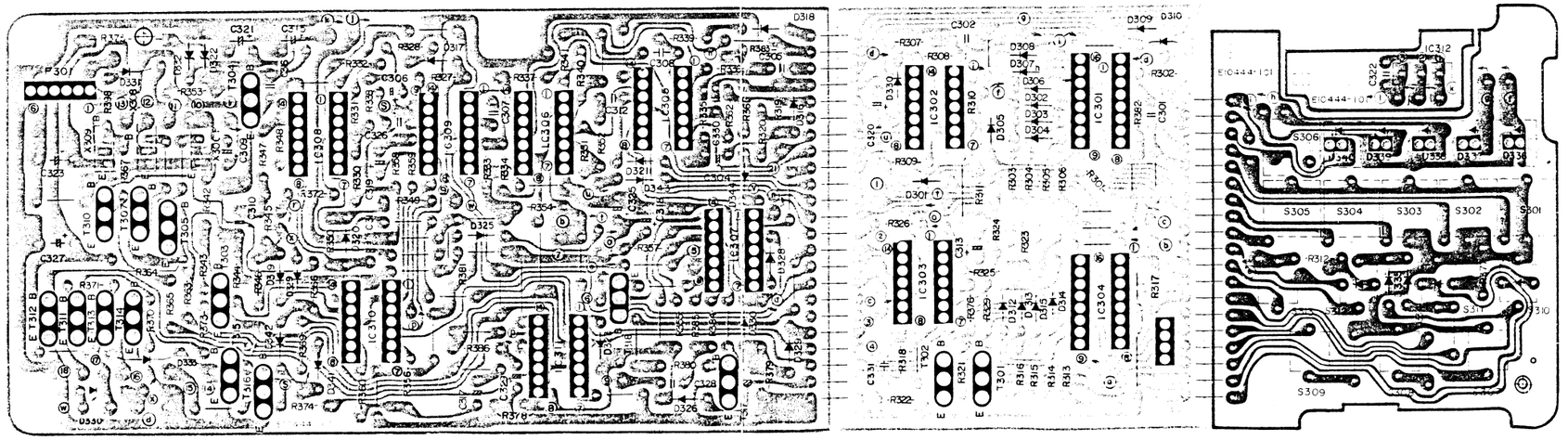
Leiterplatte Recorder – *P.C.B. Recorder* – Piastra recorder
Lötseite – *Soldered side* – Circuito stampato

Leiterplatte Betriebsanzeige
P.C.B. Mode indicator
Piastra del tipo di funzionamento
Lötseite – *Soldered side* – Circuito stampato



Leiterplatte Bandwahlschalter
P.C.B. Tape selector
Piastra comm. selett. di nastro
Lötseite – *Soldered side* – Circuito stampato

Leiterplatte
Laufwerksteuerung
P.C.B. Mechanism control
Piastra comando
mechanisma di
scorrimento
Lötseite – *Soldered side*
Circuito stampato



VTVM measurment — Unit:V

TUNERTEIL – TUNER SECTION – UNITÀ SINTONIZZAZIONE

TXX-282

IC 101	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FM 98MHZ	1.94	1.94	1.94	0	3.11	5.65	5.98	5.65	5.66	5.66	12.3	3.24	0	0	4.98	3.61

IC 102	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MW 999KHZ	5.57	2.12	2.69	0	8	2	8.84	8.83	2.73	8.37	0.67	0	2.03	12.4	1.65	0	2.01	5.61	5.58	2.88

IC 103	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FM 98MHZ	12.3	2.24	5.23	10.2	10.2	5.15	5.19	0	12.6	2.26	2.25	2.26	2.26	2.26	3.38	0

IC 104	1	2	3	4	5	6	7	8
FM 98MHZ	4.45	3.69	0	0	3.32	0.4	0	0

IC 106	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
FM 98MHZ	4.44	0	-7.3 (-)	4.14 a	4.16 f	-7 e	4.18 d	4.08 c	4.14 g	4.1 b	4.13 a	4.16 f	4.13 e	4.17 d	4.08 c	4.14 g	4.07 b	4.1 a	4.07 f	4.05 e	4.1 d	4 c	-6.8 g	4.02 b	3.92 0	-6.9 -5	3.17 (MW -7.5) (LW -7.5)	-7.1 (MW 3.73) (LW 0)	-7.1 (MW 0.05) (LW 3.72)	-7 - -	0 (MW 3.69) (LW 0)	3.68 (MW 0 (LW 3.69)	0 (MW 0 (LW 0	0.32 (MW 0.8) (LW 0.84	0.85 (MW 0.32) (LW 0.87	0.27 (MW 0.81) (LW 0.31	4.45	0.01	0.7	0	0	0

digit5 — digit 4 — digit 3 — digit 2 — digit 1 — digit5

T 101	G	D	S
FM 98 MHZ	0	10.2	0

T 102	B	C	E
FM 98 MHZ	3.19	8.17	2.62

T 103	G	D	S
FM 98 MHZ	0	0.99	0

T 104	B	C	E
FM 98 MHZ	2.43	7.93	1.74

T 105	B	C	E
FM 98 MHZ	2.24	8.68	1.56

T 139	G	D	S
FM 98 MHZ	0	7.76	0.31

IC 105	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
FM 98MHZ	0 (MW 0) (LW 1.08)	1.05 (MW 1.05) (MW 1.08)	4.44	0.4	2.49	2.74	0	0	4.59	4.59	4.59	4.59	4.59	4.59	0	0.7	0	2.4	0.75	2.5	2.4	0	0.85	0.85	0.81	2.31	0	0

T 125	B	C	E
FM 98MHZ	12.8	0	12.8
MW 999KHZ	12.8	0	12.8
LW 254KHZ	12.1	12.8	12.8

T 126	B	C	E
FM 98MHZ	12.8	0	12.8
MW 999KHZ	12.1	12.8	12.8
LW 254KHZ	12.8	0	12.8

T 127	B	C	E
FM 98MHZ	12	12.5	12.8
MW 999KHZ	12.8	0	12.8
LW 254KHZ	12.8	0	12.8

T 131	G	D	S
FM 98MHZ	0	6.42	0.69
MW 999KHZ	1	8.68	1.13
LW 254KHZ	0	8.37	1.25

T 132	B	C	E
FM 98MHZ	0.7	10.1	0
MW 999KHZ	0.64	2	0
LW 254KHZ	0.63	4.28	0

T 133	G	D	S
FM 98MHZ	1.05	8.39	1.25
MW 999KHZ	1.04	8.4	1.24
LW 254KHZ	1.07	8.3	1.26

T 134	B	C	E
FM 98MHZ	0.63	3.52	0
MW 999KHZ	0.63	4.68	0
LW 254KHZ	0.64	0.08	0

T 135	B	C	E
FM 98MHZ	-7.1	12.8	0
MW 999KHZ	0.1	12.7	0
LW 254KHZ	0.7	0.091	0

T 136	B	C	E
FM 98MHZ	-7.1	12.8	0
MW 999KHZ	0.7	0.08	0
LW 254KHZ	0.08	12.7	0

T 137	B	C	E
FM 98MHZ	0.66	0.89	0
MW 999KHZ	-7.5	12.8	0
LW 254KHZ	-7.5	12.8	0

T 128	B	C	E
	0	11.3	0
MEMO ON	0.71	0.11	0

T 110	B	C	E
F M	2.03	1.51	1.5
MW, LW	0.01	0	1.44

T 111	B	C	E
F M	0.01	0	1.5
MW, LW	1.98	1.45	1.44

T 112	B	C	E
F M	0.66	0.02	0
MW, LW	0.22	12.3	0

T 113	B	C	E
F M	11.6	12.3	12.3
MW, LW	12.3	0	12.4

T 114,115	B	C	E
F M	0.66	0	0
MW, LW	0	0	0

T 116	B	C	E
F M	2	1.46	1.39
MW, LW	0.61	0.04	0.03

T 117	B	C	E
F M	11.8	12.5	12.5
MW, LW	0.02	0	0.01

T 118	B	C	E
F M	C	7.55	0
MW, LW	0.19	0	0

T 119	B	C	E
F M	0.68	0	0
MW, LW	0	0	0

T 120	B	C	E
F M	0.56	4.44	139
MW, LW	0	4.45	1.39

T 121	B	C	E
F M	4.45	0.2	0.45
MW, LW	4.46	0	0.45

T 122	B	C	E
F M	11	12.6	10.3
MW, LW			

T 123	B	C	E
F M	6.5	11	5.86
MW, LW			

T 124	B	C	E
F M	5.85	11.5	5.23
MW, LW			

T 129	B	C	E
F M	4.59	0	4.45
MW, LW	4.63	0	4.45

T 136	B	C	E
F M	4.59	0	4.45
MW, LW	4.64	0	4.45

T 106	G	D	S
M W	4.56	11.6	6.37
L W	0.6	0.01	0.01

T 107	G	D	S
M W	0.6	0	0
L W	4.54	12.2	5.96

T 108	B	C	E
M W	6.22	5.61	5.58
L W	0.01	5.61	5.58

T 109	B	C	E
M W	0	5.61	5.58
L W	6.22	5.61	5.58

T 138	G	D	S
M W	0	2.03	1.1
L W	0	2.05	1.1

T 140	B	C	E
M W	0.68	0	0
L W	0.01	0	0

T 141	B	C	E
M W	0.68	0	0
L W	0.08	0	0

RECORDERTEIL – CASSETTE SECTION – UNITÀ REGISTRATORE

TXX-280

IC 401, 402	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Dolby OFF	6	6.2	6.64	6.1	6	6.2	5.5	0	0	6.1	6.1	6.1	0	8.64	12.7	11.9
Dolby ON	4.5	6.1	6.52	5.95	5.9	6.1	5.3	0	0	6.1	6.34	6.1	0	6.1	6	12

IC 403	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Indi — off	0	0	0	2.68	2.68	0	0	12.6	0.1	0.1	0	0.1	0.1	0

T401,404	B	C	E
	3.56	3.04	4.22

T405,406	B	C	E
	3.05	7.05	2.47

T431,432	B	C	E
	3.22	9.52	2.6

T433,434	B	C	E
	10.1	17.5	9.52

T446	B	C	E
	6.72	15	6.26

T401, 402	B	C	E
PLAY mode	0	0	0
REC mode	0.69	0	0

T409, 410	B	C	E
PLAY mode	0	0	0
REC mode	0.67	0	0

T411, 412	B	C	E
PLAY mode	2.83	2.28	2.28
REC mode	0	0	2.3

T413,414	B	C	E
PLAY mode	0	0	2.28
REC mode	2.87	2.33	2.32

T415, 416	B	C	E
PLAY mode	4.59	3.93	3.92
REC mode	0	0	4.1

T417, 418	B	C	E
PLAY mode	0	0	3.92
REC mode	4.7	4.1	4.1

T419, 420	B	C	E
PLAY mode	0	0	0
REC mode	0.66	0	0

T421, 422	B	C	E
PLAY mode	)	0	0
REC mode	0.67	0	0

T427, 428	B	C	E
PLAY mode	0.67	0	0
REC mode	0.1	0	0

T429, 430	B	C	E
PLAY mode	0.67	0	0
REC mode	0.1	0	0

T439, 440	B	C	E
PLAY mode	0.67	0	0
REC mode	-15.3	0.1	-11.7

T441, 442	B	C	E
PLAY mode	0.69	0	0
REC mode	-14.2	0	-11.7

T447	B	C	E
PLAY mode	0.62	0	0
REC mode	0.03	12.8	0

T448	B	C	E
PLAY mode	0	0	11.9
REC mode	0.66	0.03	0

T449	B	C	E
PLAY mode	11.8	12.4	12.5
REC mode	12.8	14.5	12.8

T450	B	C	E
PLAY mode	12.4	0	12.5
REC mode	12.1	12.7	12.8

T451	B	C	E
PLAY mode	0	0	0
REC mode	10.4	11	11

T407, 408	B	C	E
NORMAL	0	0	0
CrO2	0.62	0	0
METAL	0.62	0	0

T435, 436	B	C	E
NORMAL	0	0	0
CrO2	0.62	0	0
METAL	-0.5	0	0

T437, 438	B	C	E
NORMAL	-0.5	0	0
CrO2	-0.5	0	0
METAL	0.8	0	0

T453, 454	B	C	E
NORMAL	0.61	0	0
CrO2	0.62	0	0
METAL	-0.4	0	0

T443	B	C	E
REC mode NORMAL	0.76	7.31	0.3
REC mode CrO2	0.84	10.2	0.44
REC mode METAL	1.1	16.1	0.75

T444	B	C	E
REC mode NORMAL	0.75	0.04	0
REC mode CrO2	0.76	0.05	0
REC mode METAL	0.78	0.07	0

T445	B	C	E
REC mode NORMAL	7.96	13.3	7.3
REC mode CrO2	10.2	10.2	10.2
REC mode METAL	16.1	16.1	16.1

T423, 424	B	C	E
PLAY mode function TAPE	0.01	0	0
PLAY mode function TUNER	0.63	0	0

T425	B	C	E
PLAY mode function TAPE	0.63	0.01	0
PLAY mode function TUNER	0.16	4.43	0

T426	B	C	E
PLAY mode function TAPE	0.62	0	0
PLAY mode function TUNER	0.16	0	0

T452	B	C	E
REC	0	-0.4	0
REC MUTE	11.1	11.7	11.7

TXX-233

1) STOP mode, M.M.S.-off

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC301	0	12.6	0	0	0	0	0	0	0	0	0	0	0	0	0	12.6
IC302	0	12.6	0	12.6	0	0	0	0	12.5	0	0	12.5	12.5	12.6	—	—
IC303	0	0	12.6	12.5	0	0	0	0	0	12.6	0	12.6	12.5	12.6	—	—
IC304	0	12.6	0	0	0	0	0	0	0	0	0	0	0	0	0	12.6
IC305	12.6	0	0	12.6	12.6	0	0	0	12.6	12.6	0	0	12.6	12.6	—	—
IC306	12.0	0	12.6	12.6	12.0	0	0	0	0	12.6	0	12.6	12.6	12.6	—	—

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
IC307	0	0	0	0	0	12.6	0	0	0	0	0	0	0	12.6
IC308	4.46	4.46	0	0	0	0	0	0	0	12.6	0	12.6	12.4	12.6
IC309	12.6	0	12.6	11.5	12.6	0	0	12.6	12.6	0	12.6	12.4	12.4	12.6
IC310	0	12.6	0	12.6	0	12.6	0	0	12.5	0	12.6	12.6	1.70	12.6
IC311	0	0	0	0	0	0	0	0	0	0	0	0	0	12.6

	B	C	E
T301	0	11.1	0
T302	0	11.1	0
T305	0	13.5	0
T307	0	4.87	0
T308	0	4.88	0

	B	C	E
T311	13.1	13.1	13.5
T312	0	13.2	0
T313	13.1	13.2	13.5
T314	0	13.2	0
T315	0	13.2	0
T316	0	13.6	0
T317	0.69	0	0

2) REW mode, M.M.S-5

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC301	11.4	12.6	0	0	0	0	0	0	0	0	0	0	0	0	0	12.6
IC302	11.0	12.7	0	12.7	0	0	0	0	12.5	0	0	12.6	12.6	12.7	—	—
IC303	0	0	12.7	12.6	0	0	0	0	0	12.7	0	12.6	12.6	12.7	—	—
IC304	12.7	12.7	0	0	0	0	0	0	0	0	0	0	0	0	0	12.7
IC305	5.7	7.0	0	12.7	12.6	0	0	0	*1 12.7	12.7	0	0	12.7	12.7	—	—
IC306	6.0	12.5	6.0	12.7	12.0	0	0	0	12.5	12.7	0	12.7	12.7	*2 12.7	—	—

*1 mode REW→FF *2 mode M.M.S 5→4

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
IC307	0	0	0	0	0	12.7	0	0	0	0	0	0	0	12.7
IC308	4.51	4.51	0	0	0	0	0	12.4	0	0	0.43	0.43	12.7	
IC309	12.7	0	12.7	11.6	12.7	0	0	12.7	0	12.6	6.83 (5.83)	5.83 (6.83)	12.7	
IC310	0	12.7	12.7	0	12.7	0	0	11.7	0	0	12.7	0	12.2	12.7
IC311	12.7	0	12.6	0	0	0	0	0	0	0	12.7	0	12.6	12.7

* 3 MMS 5→4

	B	C	E
T301	0	11.2	0
T302	0	11.2	0
T305	0	1.06	0
T306	0	3.4	0
T307	1.62	1.06	0.82
T308	0.82	0.1	0

	B	C	E
T311	13.1	0.05	13.1
T312	0.74	0.05	0
T313	12.4	13.1	0
T314	0	13.1	0
T315	0	12.4	0
T316	0	13.2	0
T317	0.69	0	0

3) FF mode, M.M.S-off

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC301	0	12.7	0	0	0	0	0	0	0	0	0	0	0	0	0	12.7
IC302	0	12.7	0	12.7	0	0	0	0	12.6	0	0	12.7	12.7	12.7	—	—
IC303	0	0	12.7	12.6	0	0	0	0	0	12.7	0	12.7	12.6	12.7	—	—
IC304	0	12.7	0	0	0	0	0	0	0	0	0	0	0	0	12.7	12.7
IC305	5.6	7.0	0	12.7	12.7	0	0	0	*4 12.7	12.7	0	0	12.7	12.7	—	—
IC306	6.1	12.6	5.9	12.7	12.1	0	0	0	12.6	12.7	0	12.7	12.7	12.7	—	—

*4 mode FF →PLAY

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
IC307	0	0	0	0	0	12.7	0	0	0	0	0	0	0	12.7
IC308	4.55	4.55	0	11.5	12.7	12.7	0	12.4	0	0	0	0.54	0.54	12.7
IC309	12.7	0	12.7	11.6	12.7	0	0	12.7	0	12.6	6.84	6.84	6.84	12.7
IC310	0	12.7	12.7	0	0	12.7	0	0	12.6	0	12.7	4.5	7.5	12.7
IC311	0	12.7	12.6	11.5	0	12.7	0	0	0	0	12.7	0	12.6	12.7

	B	C	E
T301	0	11.2	0
T302	0	11.2	0
T305	0	1.06	0
T306	0	3.41	0
T307	1.62	1.06	0.82
T308	0.82	0.1	0

	B	C	E
T311	12.4	13.1	13.1
T312	0	13.0	0
T313	13.1	0	13.1
T314	0.73	0	0
T315	0.74	0.05	0
T316	0	13.1	0
T317	0.69	0	0

4) REC mode, M.M.S.-off

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC301	0	12.7	0	0	0	0	0	0	0	0	0	0	0	0	0	12.7
IC302	0	12.7	0	12.7	0	0	0	0	12.6	0	0	12.7	12.7	12.7	—	—
IC303	0	0	12.7	0	*3 12.2	0	0	0	10.9	0	10.9	0	0	12.7	—	—
IC304	0	12.7	0	0	0	0	0	0	0	0	0	0	0	12.3	0	12.7
IC305	12.7	0	0	12.7	12.7	0	0	0	*5 12.7	12.7	0	0.08	12.7	12.7	—	—
IC306	12.1	0	12.7	12.7	12.1	0	0	0	12.7	0	12.7	12.7	12.7	12.7	—	—

*3 mode REC →PLAY *5 mode REC →PAUSE

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
IC307	0	0	0	0	0	12.7	0	12.6	10.9	12.3	12.6	11.6	11.7	12.7
IC308	9.59	9.59	12.7	0	0	)	0	12.4	0	0	0	0.56	0.56	12.7
IC309	12.7	12.7	0	11.7	0	12.6	0	12.7	0	12.7	6.82	6.82	6.82	12.7
IC310	0	12.7	12.7	0	0	12.7	0	0	12.6	0	12.7	4.6	7.4	12.7
IC311	0	0	0	11.5	12.6	0	0	11.7	12.6	11.5	12.7	12.6	0	12.7

	B	C	E
T301	0	0.80	0
T302	0.76	0.07	0
T305	1.62	1.03	0.82
T306	0.82	0.1	0
T307	0	1.03	0
T308	0	3.44	0

	B	C	E
T311	12.4	13.1	13.1
T312	0	13.1	0
T313	13.1	0.05	13.1
T314	0.75	0.05	0
T315	0	8.13	0
T316	0.75	0.03	0
T317	0	11.6	0

5) PLAY mode, M.M.S.-1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC301	0	12.7	0	0	0	0	0	0	0	0	0	0	0	0	0	12.7
IC302	0	0	10.7	0	10.7	0	0	0	12.5	0	0	12.6	12.6	12.7	—	—
IC303	0	0	12.7	0	12.2	0	0	0	0	12.7	0	12.7	0	12.7	—	—
IC304	0	12.7	0	0	0	0	0	0	0	0	0	0	0	12.2	0	12.7
IC305	12.0	0.01	0	12.7	12.6	0	0	0	12.7	12.7	0	0	12.7	12.7	—	—
IC306	12.0	0	12.7	12.7	12.0	0	0	0	0	12.7	0	12.7	12.7	12.7	—	—

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
IC307	0	10.7	0	0	0	12.7	0	12.5	0	0	12.5	11.5	11.7	12.7
IC308	4.49	4.49	0	0	0	)	0	12.4	0	0	0	0.55	0.55	12.7
IC309	12.7	0	12.7	0	12.7	12.5	0	12.7	0	12.6	6.82	6.82	6.82	12.7
IC310	0	12.7	12.7	0	0	12.7	0	0	12.6	0	12.7	1.5	7.0	12.7
IC311	0	0	0	11.5	12.5	0	0	11.7	12.5	11.5	12.7	12.5	0	12.7

	B	C	E
T301	0	11.5	0
T302	0	11.2	0
T305	0	1.06	0
T306	0	3.41	0
T307	1.62	1.06	0.82
T308	0.82	0.1	0

	B	C	E
T311	13.1	0.05	13.1
T312	0.74	0.05	0
T313	12.4	13.1	0
T314	0	13.1	0
T315	0	12.4	0
T316	0	13.2	0
T317	0.69	0	0

6) PAUSE mode (STOP mode base)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC304	0	12.7	0	0	0	0	0	0	0	0	0	0	12.4	0	0	12.7

	B	C	E
T301	0.7	0.07	0
T302	0	0.86	0
T317	0	0	0

7) REW mode, M.M.S. 4→3→2→1

IC 301	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MMS4	0	12.7	0	0	0	0	0	0	0	0	0	0	0	0	11.0	12.7
MMS3	0	12.7	0	0	0	0	0	0	0	0	0	0	0	11.5	0	12.7
MMS2	0	12.7	0	0	0	0	0	0	0	0	0	0	11.6	0	0	12.7
MMS1	0	12.7	0	0	0	0	0	0	0	0	0	0	0	0	0	12.7

8) REC MUTE mode (REC mode base)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
IC305	12.7	0	0	0	12.6	0	0	0	*6 12.7	12.7	0	7.3	5.5	12.7
IC306	12.1	0	12.7	5.5	6.1	10.0	0	0	0	12.7	0	12.7	12.7	12.7

*6 mode REC MUTE → PAUSE

9) REC PAUSE mode, (STOP mode base)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC303	0	0	12.7	0	0	12.4	0	0	10.9	0	10.9	0	0	12.7	—	—
IC304	0	12.7	0	0	0

V.T.V.M. measurment — Unit: V

	1	2	3	4	5	6
	25	2.26	2.26	2.26	3.38	0

IC 104

	1	2	3	4	5	6	7	8
FM 98 MHZ	4.45	3.69	0	0	3.32	0.4	0	0

	T 103			T 104			T 105			T 139		
	E	G	D	S	B	C	E	B	C	E	G	D	S
	.62	0	0.99	0	2.43	7.93	1.74	2.24	8.68	1.56	0	7.76	0.31

	T 134			T 135			T 136			T 137		
	B	C	E	B	C	E	B	C	E	B	C	E
5	0.63	3.52	0	-7.1	12.8	0	-7.1	12.8	0	0.66	0.89	0
4	0.63	4.68	0	0.1	12.7	0	0.7	0.08	0	-7.5	12.8	0
6	0.64	0.08	0	0.7	0.09	0	0.08	12.7	0	-7.5	12.8	0

	T 128		
	B	C	E
	0	11.3	0
MEMO ON	0.71	0.11	0

	T 107			T 108			T 109			T 138			T 140			T 141		
	S	G	D	S	B	C	E	B	C	E	G	D	S	B	C	E	B	C	E
	6.37	0.6	0	0	6.22	5.61	5.58	0	5.61	5.58	0	2.03	1.1	0.68	0	0	0.68	0	0
	0.01	4.54	12.2	5.96	0.01	5.61	5.58	6.22	5.61	5.58	0	2.05	1.1	0.01	0	0	0.08	0	0

	T 433 434			T 446		
	B	C	E	B	C	E
	10.1	17.5	9.52	6.72	15	6.26

	11	12	13	14	15	16
	0	0	12.4	0	0	12.7

	B	C	E
T301	0.7	0.07	0
T302	0	0.86	0
T317	0	0	0

	11	12	13	14	15	16
	0	0	0	0	11.0	12.7
	0	0	0	11.5	0	12.7
	0	0	11.6	0	0	12.7
	0	0	0	0	0	12.7

	11	12	13	14
	0	7.3	5.5	12.7
	0	12.7	12.7	12.7

P.T. mode REC MUTE — PAUSE

	11	12	13	14	15	16
	10.9	0	0	12.7	—	—
	0	0	12.4	0	0	12.7
	0	0	0	12.7	—	—
	6.83	6.83	6.83	12.7	—	—

	B	C	E
T301	0.75	0.07	0
T317	0	0	0

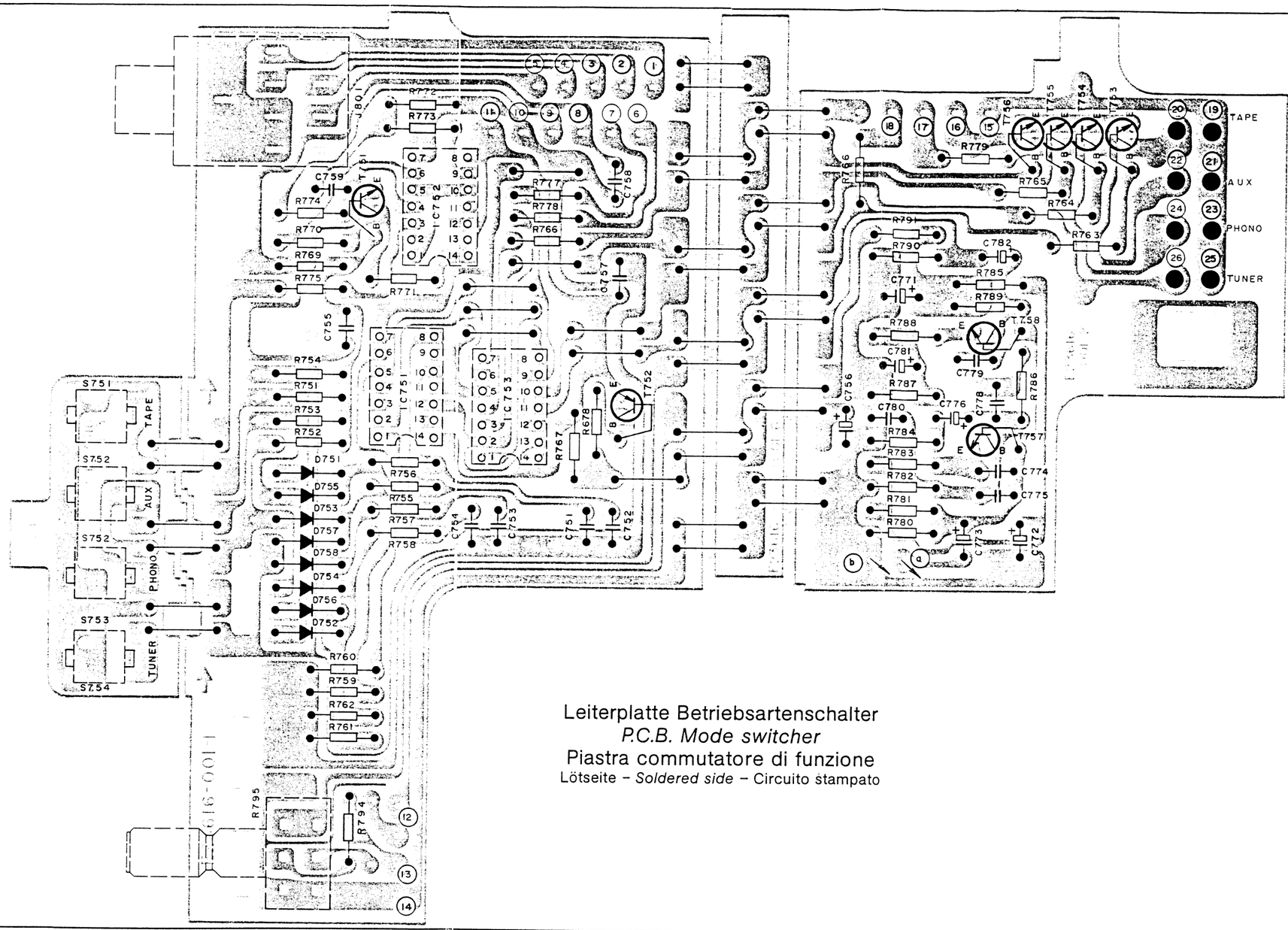
– FUNZIONI

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
T 51	0	0	8.18	0	8.18	0	0	0	0	8.18	0	8.18	0	8.19
T 52	8.19	8.19	0	0	8.19	8.12	0	8.19	0	8.19	0	8.19	8.19	8.19
T 53	0	8.19	0	0	0	0	0	0	8.19	0	7.94	8.18	8.18	8.19

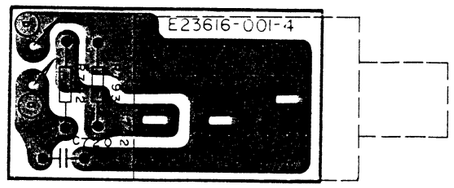
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
T 51	0	0	8.18	0	8.18	0	0	0	8.19	0	8.19	0	0	8.19
T 52	8.19	8.19	0	0	8.19	8.11	0	8.19	0	8.19	0	8.19	8.19	8.19
T 53	0	0	0	0	8.19	0	0	8.19	8.17	8.03	0	8.17	0	8.19

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
T 51	0	8.19	0	8.19	0	0	0	0	0	8.17	0	8.17	0	8.19
T 52	8.19	8.19	0	0	8.19	8.11	0	8.19	0	8.19	0	8.19	8.19	8.19
T 53	8.18	8.17	8.02	0	0	8.18	0	0	0	0	0	0	8.17	8.19

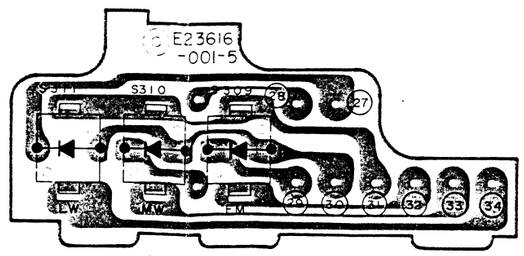
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
T 51	0	8.18	0	8.19	0	0	0	0	8.18	0	8.18	0	0	8.19
T 52	8.19	8.19	0	0	8.19	8.11	0	8.19	0	8.19	0	8.19	8.19	8.19
T 53	8.19	0	0	8.03	8.19	8.19	0	8.19	0	0	0	0	0	8.19



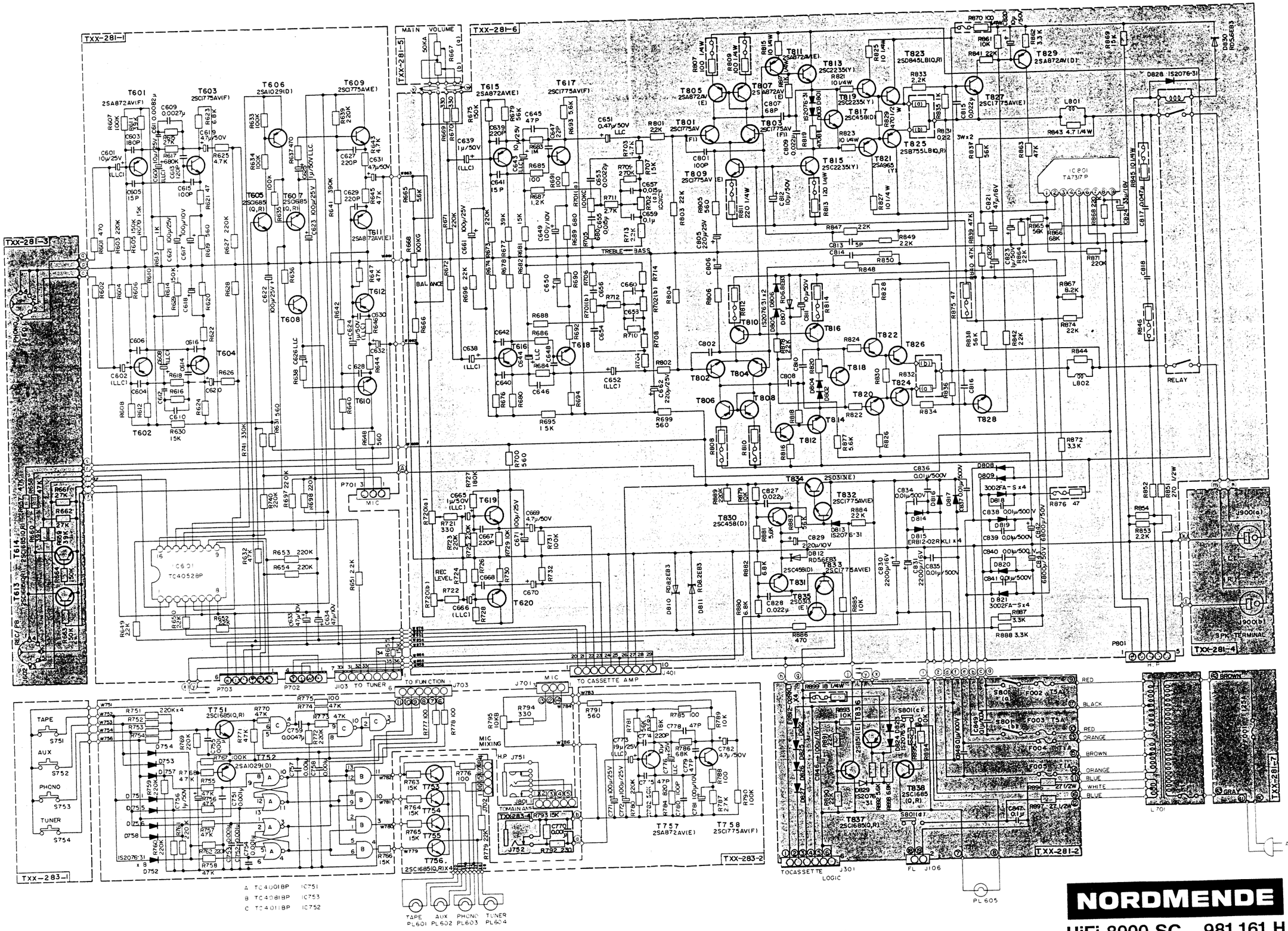
Leiterplatte Betriebsartenschalter
P.C.B. Mode switcher
Piastra commutatore di funzione
Lötseite – *Soldered side* – Circuito stampato



Leiterplatte Kopfhörerbuchse
P.C.B. Head phone jack
Piastra cuffia
Lötseite – *Soldered side* – Circuito stampato



Leiterplatte Bereichsumschaltung
P.C.B. Range switching
Piastra commutazione gamma d'onda
Lötseite – *Soldered side* – Circuito stampato



Bedien- und Verstärkerteil — *Control and amplifier section* — Comando e amplificatore

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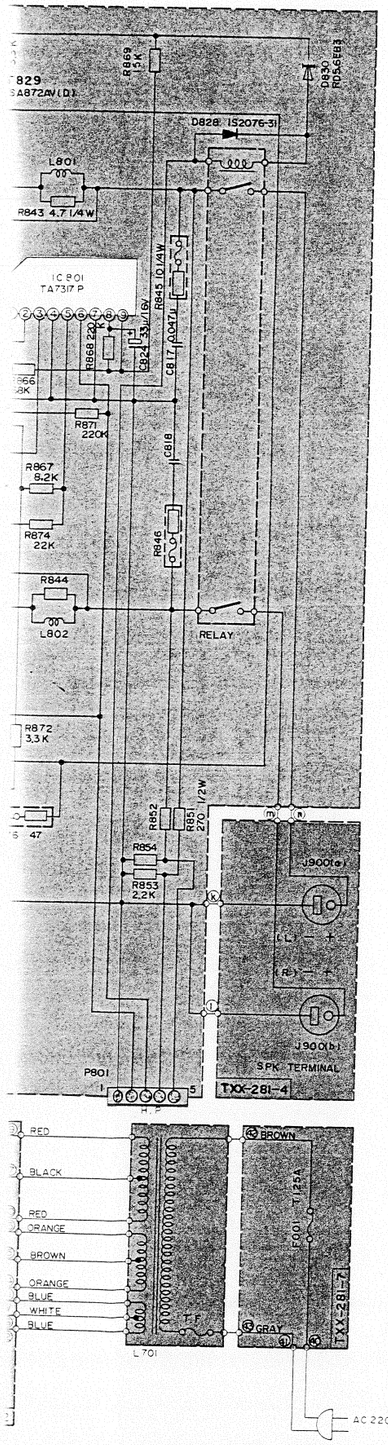

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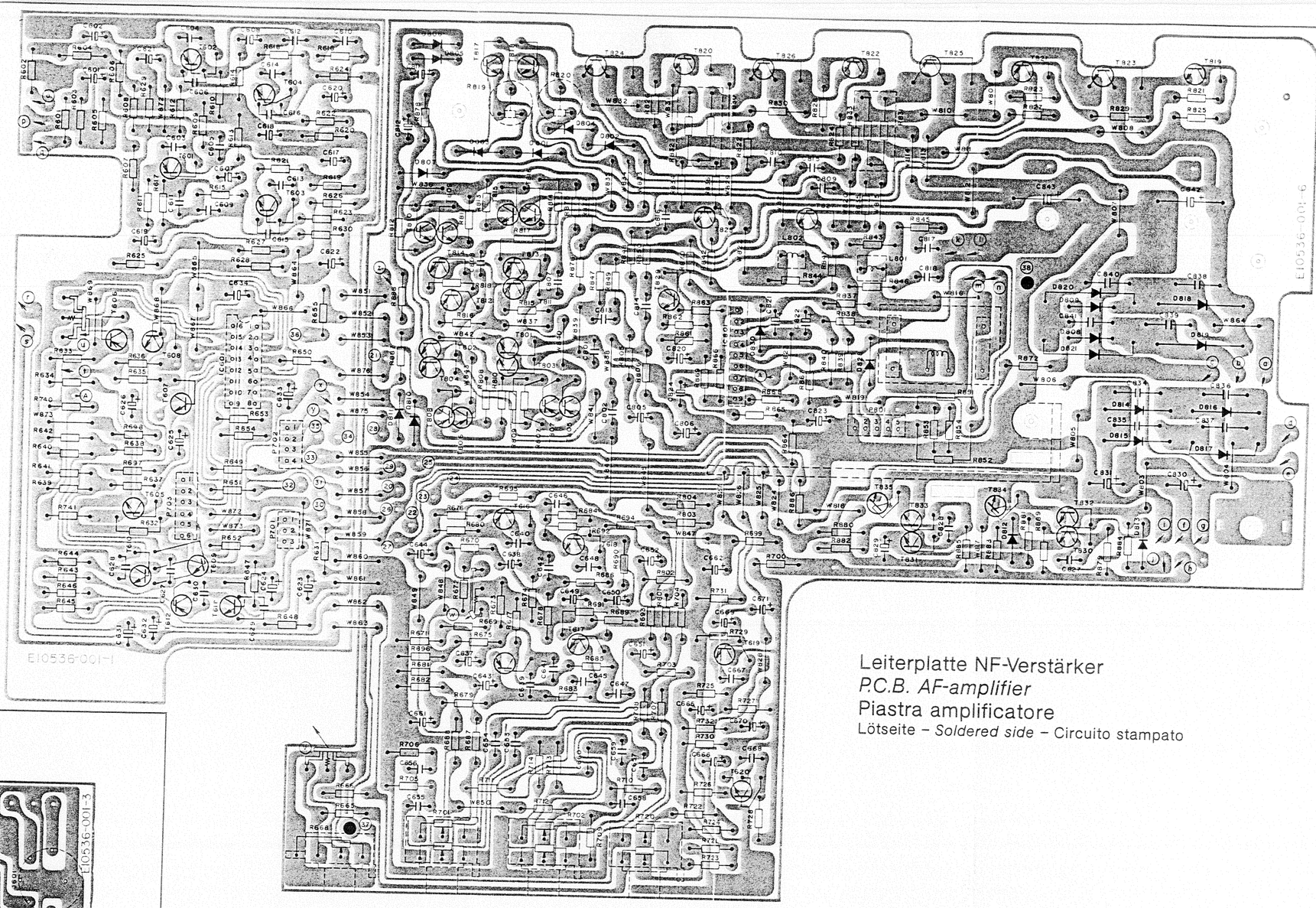
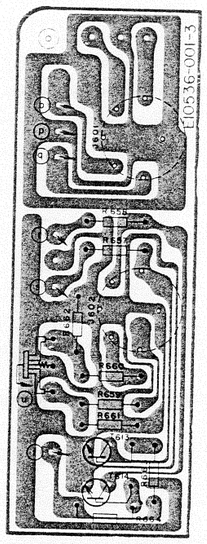
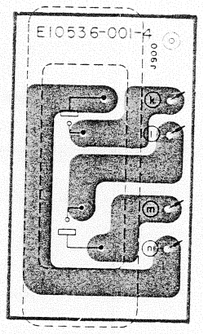


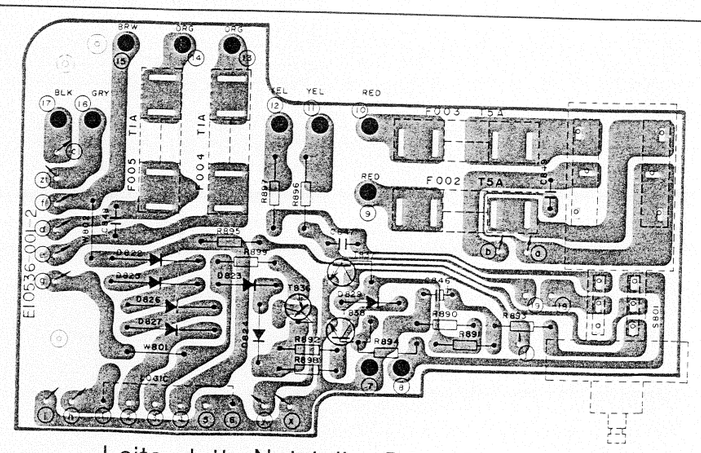
Leiterplatte NF-Verstärker
P.C.B. AF-amplifier
Piastra amplificatore
Lötseite – *Soldered side* – Circuito stampato



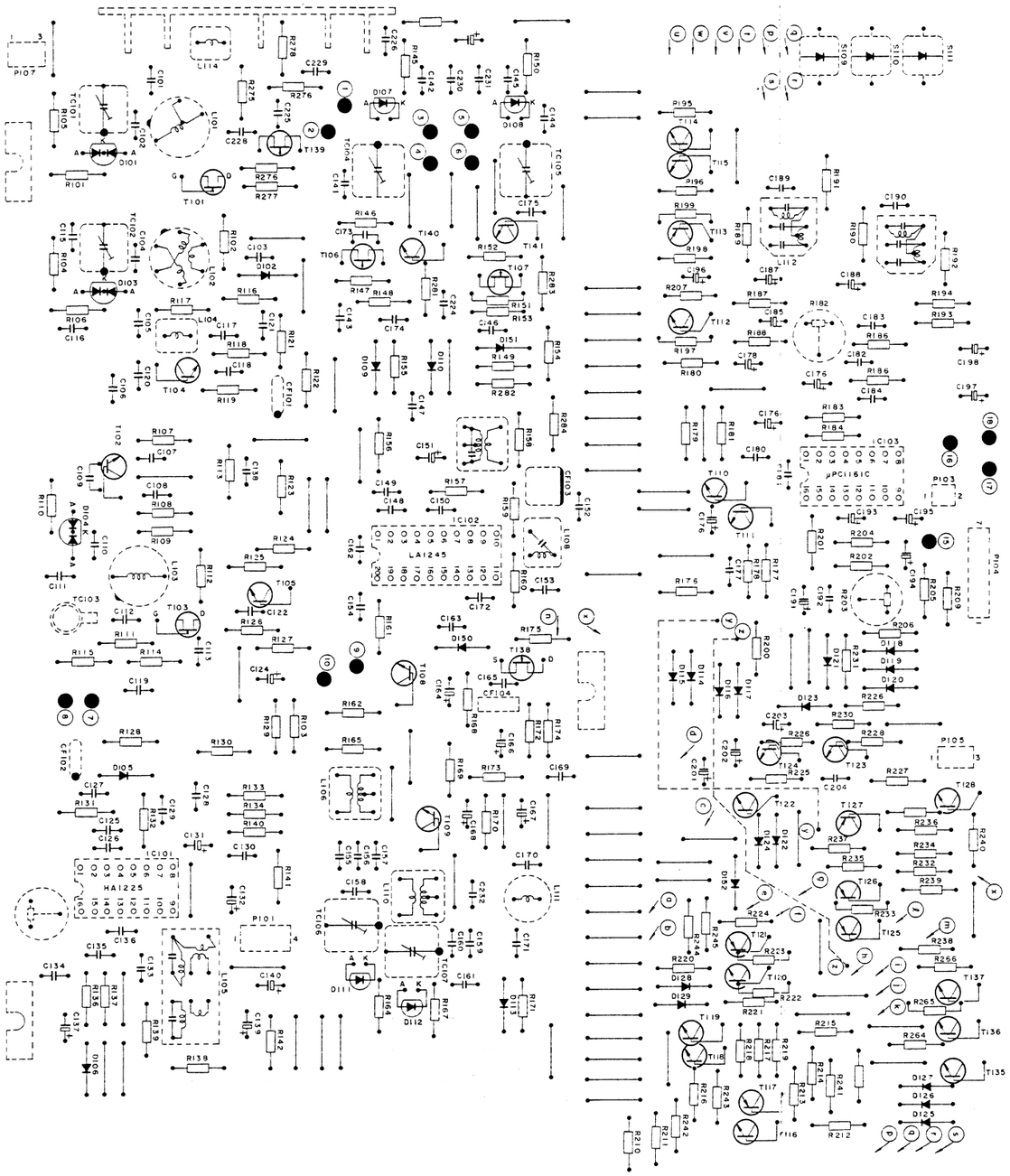
Leiterplatte Anschlußbuchsen
P.C.B. Connection sockets
Piastra prese
Lötseite – *Soldered side* – Circuito stampato



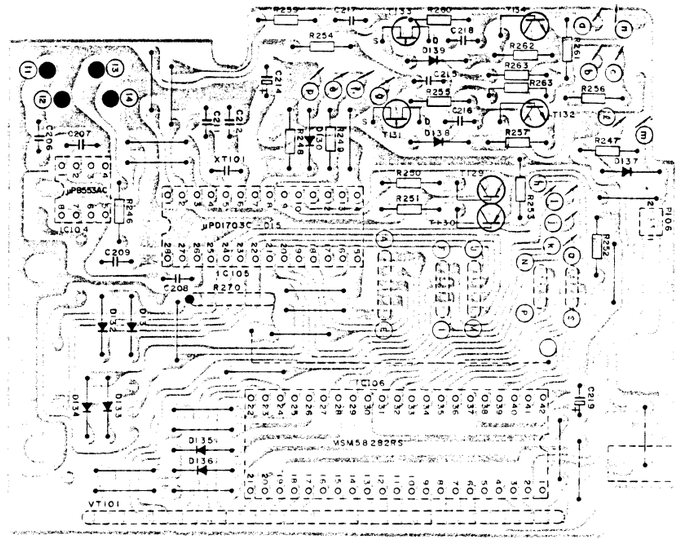
Leiterplatte
Lautsprecherbuchsen
P.C.B. Speaker sockets
Piastra prese
altoparlanti
Lötseite
Soldered side
Circuito stampato



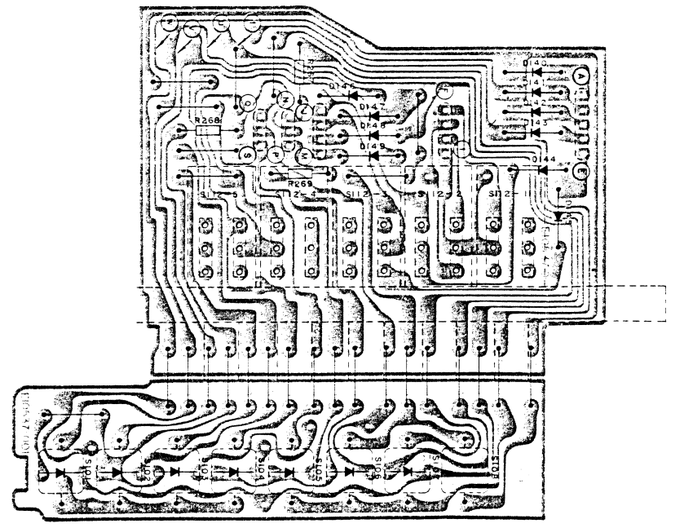
Leiterplatte Netzteil – *P.C.B. Power unit*
Piastra di rete
Lötseite – *Soldered side* – Circuito stampato



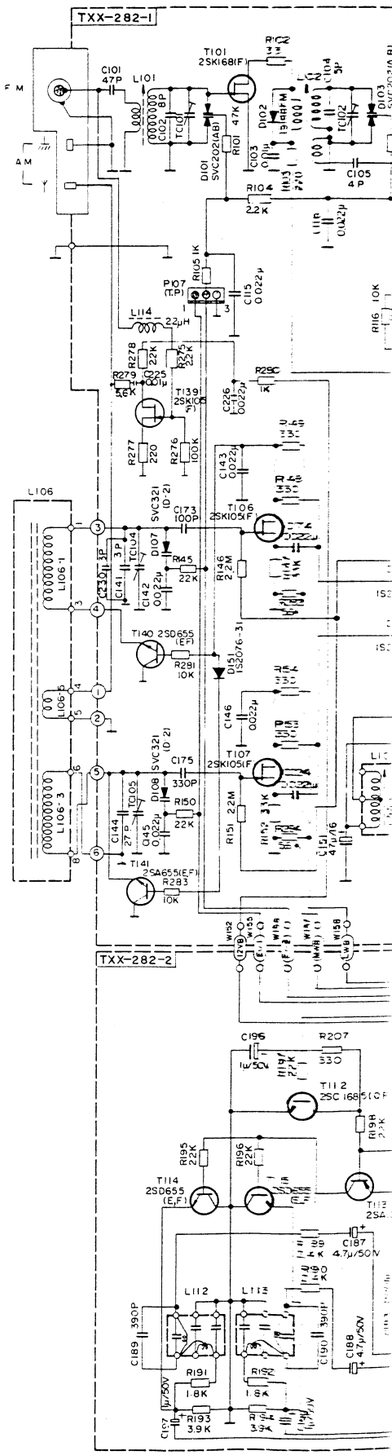
Leiterplatte HF-ZF-Stereo
P.C.B. RF-IF-stereo
Piastra AF-FI-stereo
Lötseite – *Soldered side* – Circuito stampato

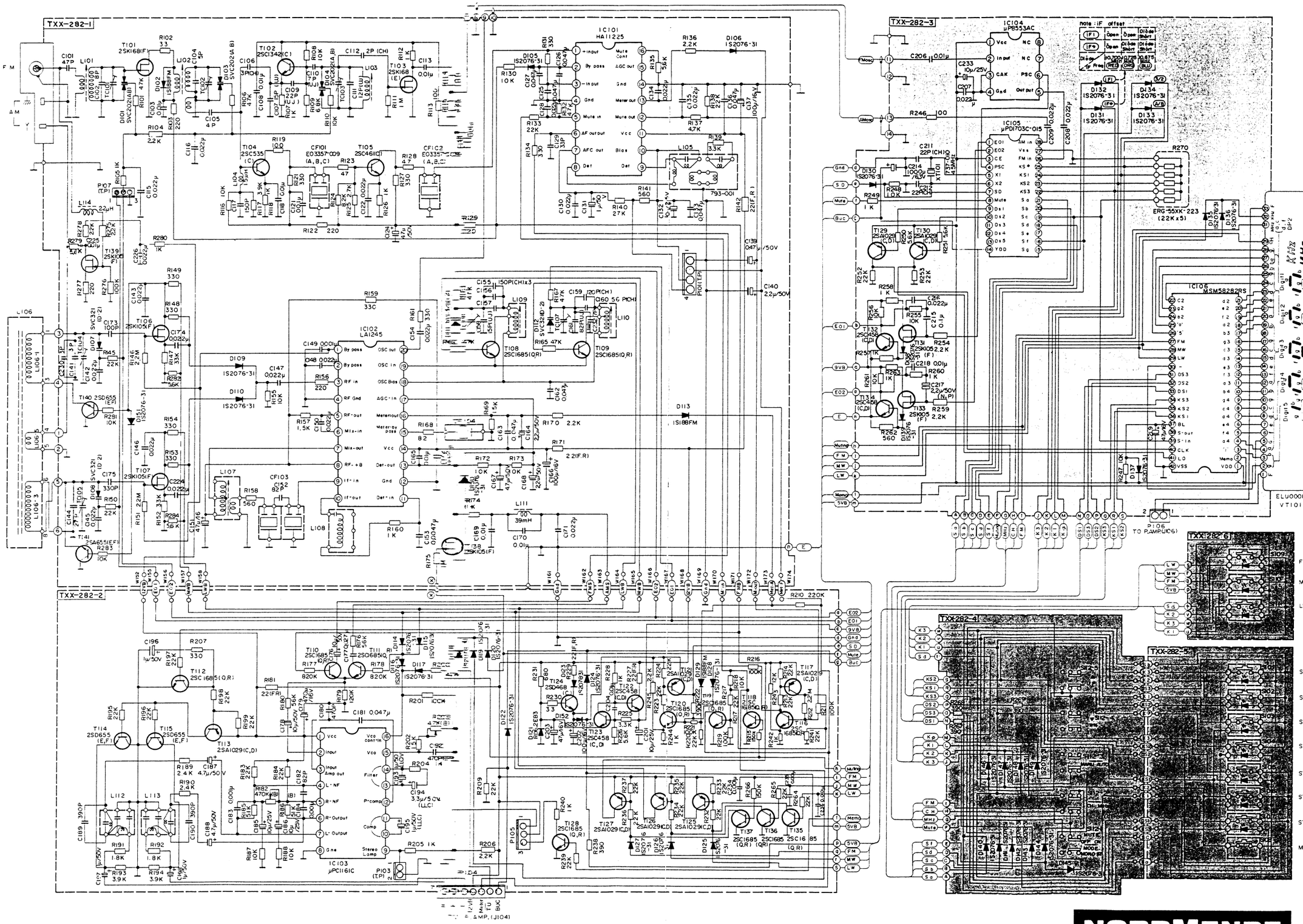


Leiterplatte Frequenzzähler
P.C.B. Frequency counter
Piastra contatore di frequenza
Lötseite – *Soldered side* – Circuito stampato



Leiterplatte Festsendertasten – Abstimmung
P.C.B. Fixed station buttons – Tuning
Piastra tasti emittenti – Sintonizzazione
Lötseite – *Soldered side* – Circuito stampato





HF-ZF-Teil – *RF-IF section* – Parte AF-FI

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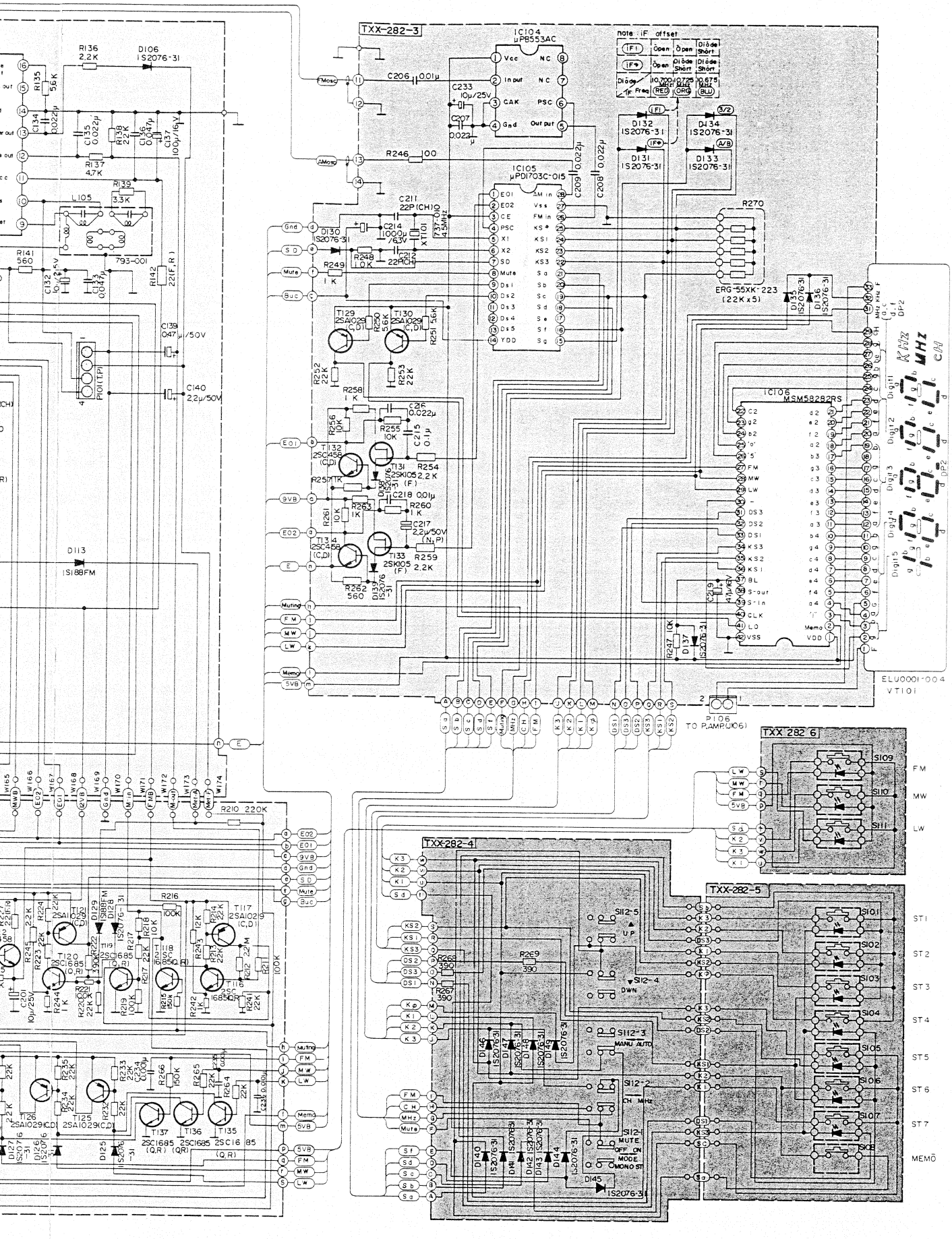

F-IF section – Parte AF-FI

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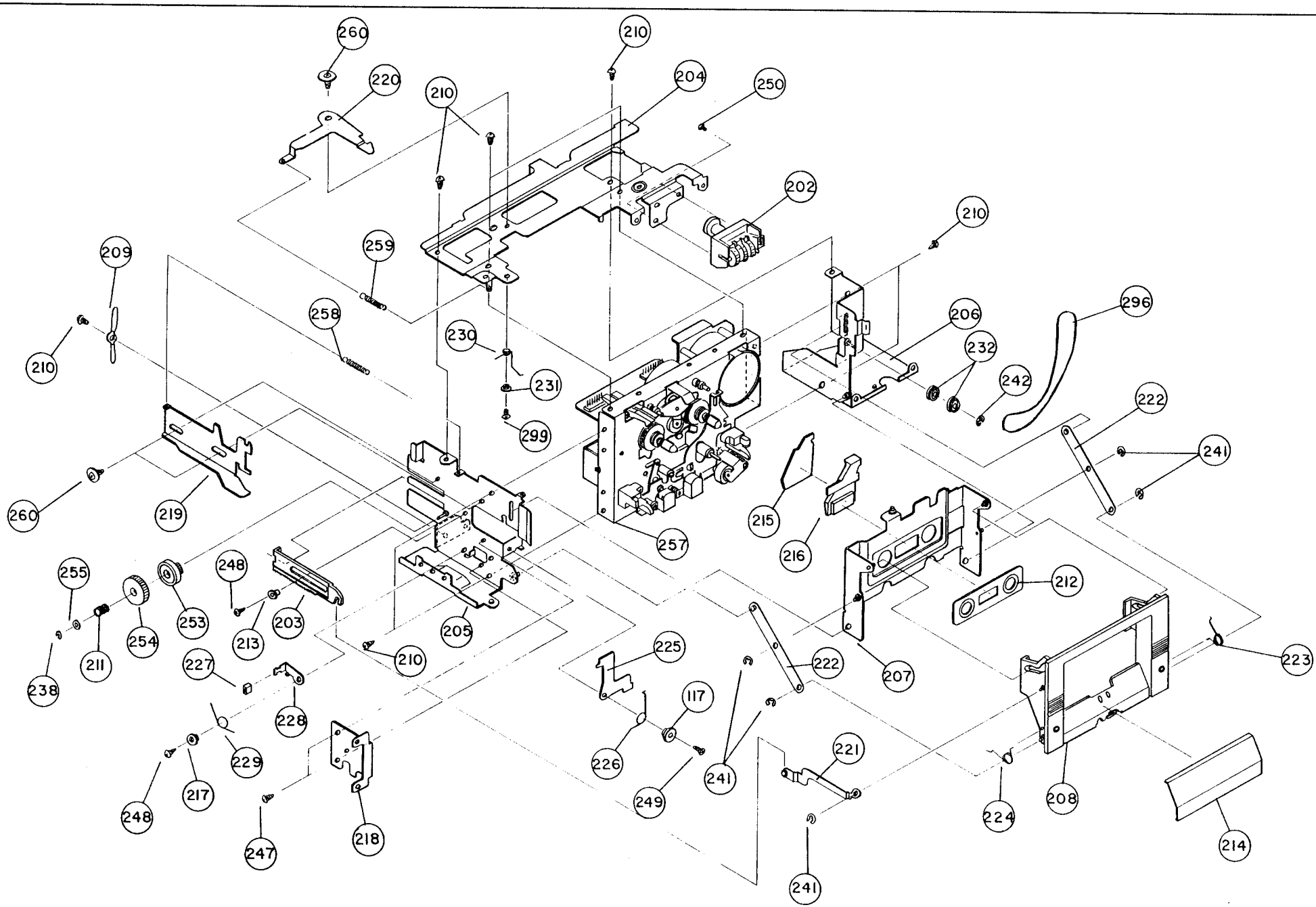
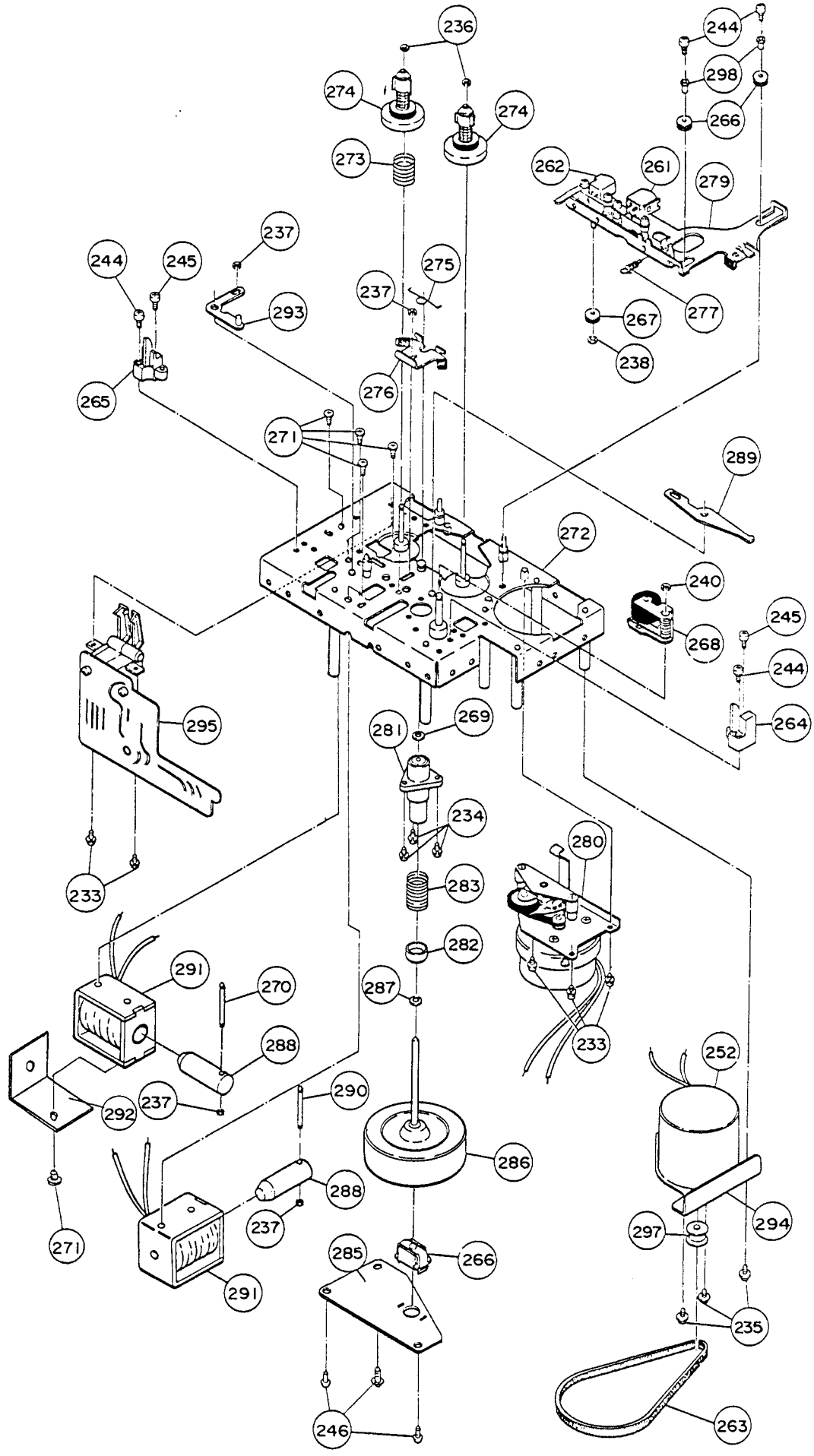


Explosionszeichnung – *Exploded diagram* – Disegno posizione



Explosionszeichnung – *Exploded diagram* – Disegno posizione